Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

IMPROVEMENT IN BUILDING OPERATIONS

There has been more activity in the building trade than in several months, notably the gain of October over September. While there is a loss for the month of October over the corresponding month of last year, it is not as great as the one in September over last year. In 20 cities in the Eastern States there was a total cost of new buildings from plans filed in October of $15,780,695, compared with $17,676,641 for the month of October, 1913, or a loss of 10%, whereas the loss in the same cities for September was 39%. The estimated cost of new buildings for the first ten months of 1914 was $234,240,624, compared with $244,916,477 of last year, or a loss of 5%.

In 22 cities in the Middle West, the loss was 24% for October, or $16,820,300, compared with $22,293,612 for October of last year. This is about the same percentage of loss as in September. There is a gain of 2% for the first ten months of this year over last, expressed in dollars it is $215,503,529 for 1914 and $210,754,757 for 1913.

In nine Southern cities there is a loss of only 25% for October. This is a gain of 16% over last month, for the loss for September was 41%. The total for October is $1,776,372, compared with $2,342,976 for last year.

Only five cities in the Pacific Coast States have been heard from, but the loss is small, both in the figures for October and for the first ten months of the year; however, there is a gain over last month. On the whole, the building figures for October from the entire country show an improvement.

EASTERN STATES

	Month of October 1914	1913	First Ten Months of Year 1914	1913
Albany, N. Y.	$239,225	$781,965	$5,662,700	$8,539,555
Baltimore, Md.	289,567	697,606	10,991,746	7,956,223
Bridgeport, Conn.	174,437	169,060	2,291,436	2,457,489
Buffalo, N. Y.	604,000	1,347,000	9,864,006	10,244,243
Elizabeth, N. J.	163,405	180,405	1,215,027	2,227,410
Hartford, Conn.	360,135	422,865	3,360,491	4,463,311
Hoboken, N. J.	24,950	7,800	765,677	393,942
Jersey City, N. J.	156,850	401,589	3,130,966	4,843,850
Newark, N. J.	120,410	675,530	8,792,350	12,582,774
New Haven, Conn.	231,315	214,785	3,569,117	3,178,456
New York, N. Y.				
Manhattan	3,551,075	2,442,100	43,151,165	54,771,535
Bronx	1,202,675	705,485	19,641,943	18,728,391
Brooklyn	2,453,340	2,222,630	35,552,850	25,710,141
Queens	967,840	1,206,538	16,183,925	14,588,934
Paterson, N. J.	55,247	172,605	1,428,445	1,287,759
Philadelphia, Penn.	2,467,310	2,754,785	32,688,940	36,661,860
Pittsburgh, Penn.	1,085,348	1,362,387	13,944,214	13,854,983
Reading, Penn.	28,475	103,125	1,118,825	786,850
Rochester, N. Y.	401,192	735,403	7,971,828	8,259,364
Scranton, Penn.	300,835	102,251	1,551,905	1,122,618
Springfield, Mass.	228,825	327,498	4,510,030	3,856,676
Syracuse, N. Y.	258,665	78,985	2,458,205	4,144,843
Worcester, Mass.	415,574	494,044	4,394,833	4,255,270
Totals	$15,780,695 Loss 10%	$17,676,641	$234,240,624 Loss 5%	$244,916,477

MIDDLE WEST

Akron, Ohio	$248,465	$463,425	$3,425,995	$4,749,375
Chicago, Ill.	6,774,200	9,314,000	70,534,910	76,743,877
Cincinnati, Ohio	402,235	581,345	8,239,903	7,497,887
Cleveland, Ohio	2,265,685	1,979,075	23,938,540	20,537,740
Columbus, Ohio	649,220	590,005	5,512,476	4,677,088
Dallas, Tex.	204,150	519,435	4,989,737	7,361,015
Denver, Colo.	157,985	241,703	3,002,538	3,582,848
Des Moines, Iowa	145,084	122,360	1,795,248	1,532,169
Detroit, Mich.*	1,233,130	3,079,540	24,640,195	26,726,548
Duluth, Minn.	236,625	212,452	2,609,318	3,797,866
Evansville, Ind.	99,850	137,286	1,212,304	1,612,238
Grand Rapids, Mich.	152,080	257,763	3,324,744	3,742,011
Indianapolis, Ind.	337,689	573,048	7,318,158	8,180,793
Kansas City, Kan.	66,552	69,030	988,703	1,011,441
Kansas City, Mo.	533,790	1,540,705	16,640,150	9,170,826
Milwaukee, Wis.	611,577	1,209,215	8,798,928	11,263,796
Minneapolis, Minn.	1,064,570	1,240,950	13,989,510	10,888,300
Omaha, Neb.	157,675	294,025	4,260,398	3,692,668
St. Louis, Mo.	1,115,874	820,073	11,538,589	13,496,136
St. Paul, Minn.	1,001,300	804,252	12,430,645	8,088,355
Salt Lake City, Utah	107,605	171,795	2,704,564	1,744,185
San Antonio, Tex.	83,150	275,405	2,579,610	1,980,727
Toledo, Ohio	404,939	868,165	5,668,561	5,403,416
Totals	$16,820,300 Loss 24%	$22,293,612	$215,503,529 Gain 2%	$210,754,757

SOUTHERN STATES

Atlanta, Ga.	$215,988	$338,340	$4,254,524	$4,615,419
Birmingham, Ala.	138,373	254,741	2,966,233	5,504,877
Chattanooga, Tenn.	61,872	89,420	1,018,879	959,540
Louisville, Ky.	327,040	332,580	4,061,515	3,711,450
Memphis, Tenn.	105,580	196,990	2,761,289	3,667,751
New Orleans, La.	286,378	208,750	2,615,947	3,750,979
Richmond, Va.	122,620	147,060	2,940,205	2,680,683
Tampa, Fla.	111,110	114,163	1,289,410	1,270,634
Washington, D. C.	407,411	660,932	8,110,200	8,229,523
Totals	$1,776,372 Loss 25%	$2,342,976	$30,018,202 Loss 12%	$34,390,856

PACIFIC COAST STATES

Los Angeles, Calif.	$1,565,000	$1,701,550	$15,845,932	$27,284,812
Portland, Ore.	508,705	681,710	6,278,890	11,722,660
San Francisco, Calif.	1,479,518	1,118,280	26,471,082	17,936,939
Seattle, Wash.*	610,660	474,190	11,127,820	8,383,590
Spokane, Wash.	60,450	140,340	909,467	3,286,973
Tacoma, Wash.	46,563	138,223	1,845,596	2,296,544
Totals	$3,660,236 Loss 6%	$3,780,103	$61,350,967 Loss 2%	$62,527,928

*Not included in totals.

RAILWAYS

✚**West Virginia**—The Big Bend Coal Co. has awarded a contract to RYAN & CO., Lexington, Ky., for constructing a 2½ railway around Hatfield Curve, near Matewan, W. Va.

✚Norfolk & Western Ry.—J. J. BOXLEY & SON, Roanoke, Va., has been awarded the contract by this company for the construction of a five-mile line from the Dry Fork branch near Berwind, W. Va.

✚**Illinois**—Illinois Central R.R.—This company has awarded the contract for the construction of a 2.5 mile spur line from Oak Ridge, Ill., to Mine No. 3 of the Peabody Coal Co. in Williamson County, Ill., to W. H. WINDHAM, Centralia, Ill.

Wisconsin—Superior & Southeastern Ry.—Plans are being considered by this company for the extension of its line from New Richmond, Wis., into Bayfield County. J. E. Glover, New Richmond, is Pres.

South Dakota—Sioux Falls & Western Ry.—Preliminary arrangements are being made by this company for the construction of a line from Sioux Falls to Wheeler, S. D. George Schlosser, Sioux Falls, is interested.

✚**Arkansas**—The A. L. Clark Lumber Co. has awarded a contract to J. N. GEORGE & SON for constructing a six mile railway at Glenwood, Ark.

✚McCrory & Beedeville Southern Ry.—This company has awarded a contract to W. A. COLE, McCrory, Ark., for taking up eight miles of its railway in Arkansas.

Texas—Kansas City, Mexico & Orient R.R.—It is announced that construction will be resumed soon on the branch line of this company between San Antonio and Del Rio, Tex. The road will be about 200 miles long. R. P. Parker, San Angelo, Tex., is Ch. Engr. Noted Nov. 5.

New Mexico—Atchison, Topeka & Santa Fe Ry.—This company plans to purchase the line of the New Mexico Central R.R. and extending it from Torrance to Roswell, N. M., about 100 miles. F. M. Bisbee, Amarillo, Tex., is Ch. Engr., Western lines.

Arizona—San Diego & Arizona Ry.—See item under California.

California—San Diego & Arizona Ry.—This company will issue $25,000,000 bonds for further construction work. About $15,000,000 will be spent in finishing the line to El Centro, Calif., and $10,000,000 for constructing the line to Yuma, Ariz. George Holmes, San Diego, Calif., is Pur. Agt.

ELECTRIC RAILWAYS

Boston, Mass.—The Boston Elevated Ry. Co. is preparing plans for the extension of its line from its present terminus on Playstead Rd. to Madison St. Edward Mahler, Boston, is Pur. Agt.

New Britain, Conn.—The Connecticut Co. is preparing plans for double tracking several of its lines in New Britain. F. L. Beardsley, New Britain, is Supt.

Camden, N. J.—The Public Service Ry. Co. plans the improvement of its Haddon Heights and Clementon branch lines, to cost about $50,000. R. E. Danforth, Newark, is Gen. Mgr.

Paterson, N. J.—The Public Service Ry. Co. has submitted a detailed statement to the Board of Public Utility Commissioners estimating the cost of the proposed track elevation for its local lines over the Erie R.R. right of way, at $62,278. R. E. Danforth, Newark, is Gen. Mgr.

Point Marion, Penn.—See item under Morgantown, W. Va.

West Newton, Penn.—The West Penn Traction Co. plans to start work soon on the construction of its proposed electric railway from West Newton and Hunker Station. W. E. Moore, First National Bank Bldg., Pittsburgh, is Vice-Pres. and Gen. Mgr.

Charlottesville, Va.—Plans are being prepared by the Charlottesville Interurban Ry. Co. for the construction of an electric railway from Charlottesville to Alberne, about 15 miles. Walter Washabaugh, Charlottesville, is Ch. Engr.

✚**Morgantown, W. Va.**—The Morgantown Interurban Ry. Co. has awarded the contract for constructing its line from Morgantown, W. Va., to Point Marion, Penn., about nine miles, to JOSEPH VANDERGRIFT. Noted May 29.

Gadsden, Ala.—According to press reports preliminary surveys are being made by C. L. March, Gadsden, for the construction of an interurban electric railway from Gadsden to Center. Noted Oct. 15.

Huntsville, Ala.—The Huntsville & Florence Interurban Ry. Co. is making preliminary arrangements for the construction of an electric railway from Huntsville to Florence. Tracy W. Pratt, Huntsville, is interested. Noted Oct. 1.

Rochelle, Ill.—The Lee County Central Electric Ry. Co. has been granted permission to extend its electric railway from Middleboro to Rochelle. F. R. Hanson, Amboy, Ill., is Gen. Supt.

Bryan, Tex.—L. M. Hewett and associates are preparing to construct an interurban electric line to connect Bryan, Navasota, Independence and William Penn. From Navasota the proposed road will run north to Bryan, forming a loop of about 45 miles. Bonuses in aid of the project are being raised along the route.

Castroville, Tex.—The citizens of Castroville, La Costa, Rio Medina and Red Wing have raised a bonus of $35,000 to aid the San Antonio, San Jose & Medina Interurban Ry. Co. in constructing its line from San Antonio to the Medina dam. J. G. Miller, Swearingen Bldg., San Antonio, is Gen. Mgr. Noted Sept. 24.

Dayton, Tex.—Plans are being prepared for the construction of an electric railway to connect Dayton, Houston, Beaumont and Liberty.

Mexia, Tex.—Preliminary arrangements are being made for the construction of an electric railway in Mexia. The Commercial Club is interested. Noted Oct. 22.

Easton, Calif.—The Easton Electric Ry. Co. will extend its line from Easton to Burlingame Hills.

Los Angeles, Calif.—The City Council will soon call for bids for a franchise to extend the electric railway on Evergreen Ave., Wabash Ave., Zonal St. and Marengo Ave. in Boyle Heights.

The Pacific Electric Ry. Co. has announced that construction will be started soon on the extension of the electric railway from Riverside to Corona. The cost will be about $250,000. J. McMillan, Los Angeles, is Gen. Mgr.

Montreal, Que.—The Montreal & Southern Counties Ry. Co. has been granted permission by the City Council to connect its lines with the tracks of the Grand Trunk Ry. Co. and the Montreal Tramways Co. in Montreal. W. B. Powell, Montreal, is Vice-Pres. and Gen. Mgr.

Sudbury, Ont.—The Sudbury-Copper Cliff Suburban Electric Ry. Co. has completed surveys for the construction of an electric railway from Sudbury to Copper Cliff, about five miles. J. H. Mackey, Sudbury, is Pres. Noted Feb. 12.

Toronto, Ont.—The city is making arrangements with the Toronto Ry. Co. for the reconstruction of the line on College St. from Spadina Ave. to Lansdowne Ave.

Winnipeg, Man.—Plans are being prepared by the Winnipeg Electric Ry. Co. for the construction of an electric railway in the northwestern section of Winnipeg. Wilford Phillips, Winnipeg, is Gen. Mgr. and Ch. Engr.

LIGHT, HEAT AND POWER

Framingham, Mass.—(Official)—Bids will be received until noon, Nov. 18, by the Massachusetts Board of Education, 15 Ashburton Pl., Boston, for heating and ventilation and plumbing equipment for the new dormitory and refectory building of the State Normal School, Framingham. The Richard D. Kimball Co., 6 Beacon St., Boston, is Engr.-in-Charge. David Snedden is Comr. of Education.

Pascoag, R. I.—(Official)—Bids will be received until noon, Nov. 16, by the Pascoag Fire District Electric Light Board, A. H. Sayles, Chn., for the construction of electric lines, and furnishing and installing substation equipment throughout the districts of Pascoag and Harrisville, R. I.

New Britain, Conn.—Plans are being prepared by Walter P. Crabtree, 272 Main St., for a central heating and lighting plant for the vocational schools. The building will be 50x75 ft., and will contain six 100-hp. boilers.

★Bedford Hills, N. Y.—(Official)—Bids will be received until 2 p.m., Nov. 21, by James Wood, Pres. Bd. of Mgrs. State Reformatory for Women, Bedford Hills, for boiler house equipment, underground feeders and ground lights at the Reformatory. Plans on file at the office of the Department of Architecture, 1124 Woolworth Bldg., New York, N. Y., or with Lewis F. Pilcher, State Arch., Capitol, Albany, N. Y.

✚Orangeburg, N. Y.—The Fibre Conduit Co., Orangeburg, has awarded the contract for the construction of a one-story brick and steel power house to the FLYNT BUILDING & CONSTRUCTION CO., Palmer, Mass. The building will be 44x66 ft.

Burlington, N. J.—The City Council will change the motive power of the pumping station from steam to electricity at an estimated cost of $6000. Four pumps operated by electric motors will be provided. The Public Service Electric Co. will furnish the necessary energy.

Trenton, N. J.—It is reported that the United & Globe Rubber Mfg. Co. will build an electric power plant to provide a 24-hr. service for its factory. The J. Hall Smith Co., operating an adjoining factory, will also have an interest in the plant, which is being designed by the Wright Electric Co., Trenton.

Hastings, Penn.—An election will soon be held to vote on the question of issuing $32,000 in bonds to be used for the construction of a municipal electric light plant.

Washington, D. C.—Press reports state that the Adams Express Co. is considering the equipment of an electric power plant at Second and I St., Washington. The estimated cost is $15,000.

✚Logan, W. Va.—The Logan County Power & Light Co. has awarded the contract for the construction of an 84x100-ft. central power plant, of brick and reinforced concrete, with a brick smokestack 200 ft. high, to C. W. McNULTY, Huntington, W. Va. Turbines with a capacity of 10,000 kw. and 75 miles of 44,000-volt transmission line will be installed. Francis R. Weller, Hibbs Bldg., Washington, D. C., is Engr.-in-Charge. Noted July 30 and Sept. 17.

Kinston, N. C.—It is reported that the city will soon ask bids for the construction of an addition to the municipal electric-light plant. A steam-engine-driven unit of about 300 kw. with condenser will be installed. Gilbert C. White, Charlotte, N. C., is Engr.-in-Charge.

Cleveland, Tenn.—The Tennessee Power Co. has secured a site along the Toccoa River in Georgia, and will build the fourth and fifth of its power dams on that stream. J. A. Cunningham, Cleveland, is Gen. Supt. of the Tennessee Power Co.

Louisville, Ky.—The Louisville Chemical Co., 1455 South Seventh St., contemplates equipping its proposed new plant with electrically driven machinery.

Conneaut, Ohio—The City Council is considering plans for rebuilding the municipal electric light plant at a cost of about $35,000. The matter will be held in abeyance until next spring. S. W. Mehaffey is Dir., Pub. Serv.

Pemberville, Ohio—The village has sold $9000 in bonds, the proceeds of which will be used for the installation of a municipal electric-light plant. Fred H. Froelich, Toledo, Ohio, is Engr.-in-Charge.

St. Henry, Ohio—It is reported that bids will be received, until Nov. 20, for the construction of a municipal electric lighting system to be operated in conjunction with the water works plant. The Council has recently authorized a bond issue to pay for the work.

Sandusky, Ohio — (Official) — Bids will be received until noon, Nov. 30, by John J. Molter, Dir. of Pub. Ser., for furnishing and operating a complete electric lighting system for the streets, lanes, parks and public places of the city.

Mount Morris, Mich.—The Village Council is considering the question of establishing a municipal electric-light plant, if bonds to pay for its construction can be sold.

Sturgis, Mich.—Robinson & Campau, 449 Housman Bldg., Grand Rapids, Mich., are preparing plans for a central heating plant to be located in Sturgis. The estimated cost is $100,000.

Atwood, Ill.—The Village Board has engaged Ralph Blackwell to supervise the installation of a municipal electric light plant for which bonds were recently authorized.

Greeley, Iowa—Fire, on Oct. 30, destroyed the municipal electric-light plant at a loss of about $6500. It is reported that plans are being made for rebuilding the plant, which had been in operation a few months only.

Larchwood, Iowa—The City Council has engaged Earle D. Jackson, Capitol Bank Bldg., St. Paul, Minn., to supervise the engineering work in connection with the construction of the proposed municipal electric light plant. The estimated cost is $10,000.

Marengo, Iowa—The Iowa Ry. & Light Co., Cedar Rapids, has been granted permission to rebuild the electric light plant and system in Marengo. Robert S. Cook, Cedar Rapids, is Pur. Agt.

Talmage, Neb.—At a recent election, the citizens voted in favor of a bond issue of $9000, the proceeds of which will be used for the establishment of a municipal electric light plant.

New Haven, Mo.—See item under "Water Supply and Irrigation."

Cuero, Tex.—It is reported that the Columbia Gas Co., Milwaukee, Wis., will apply to the City Council for a franchise to build a gas manufacturing plant, and lay a distributing system. The entire plant will cost about $90,000.

Waco, Tex.—The Texas Power & Light Co. has applied to the City Council for a franchise to install and operate a natural gas distributing system in Waco.

Pryor, Okla.—The City Light & Ice Co., recently incorporated with a capital stock of $50,000, plans to equip and operate an electric-light plant in Pryor.

Alamogordo, N. M.—W. R. Eidson and associates contemplate establishing an electric-power plant at Alamogordo, and will build transmission lines to ranches in the Alamogordo Valley to operate pumping plants for irrigation purposes.

✚Lahonton, Nev. — The Nevada Valleys Power Co. has awarded the contract for the construction of an 82-mile transmission line from Lahonton to Rochester, Nev., to J. W. FINCH.

Phœnix, Ariz.—The City Commission is considering the establishment of a municipal electric-light and power plant. Bonds will be issued to pay the cost of construction. Fred N. Holmquist is City Engr.

El Centro, Calif.—The Holton Power Co. will build a substation at this place to cost about $45,000, and will construct a transmission line from El Centro to Seeley and Dixieland at a cost of about $12,000.

Fowler, Calif.—The Fowler Gas Co. plans to extend its mains, and otherwise improve its service at a cost of about $15,000.

St. Malo, Que.—Bids will be received, until Dec. 1, by W. J. Press, Mech. Engr. of the National Transcontinental Ry., Ottawa, Ont., for boilers, stokers, feed water heater, steam engines or turbines and generators, switchboard and wiring for the Leonard locomotive and car shops of the National Transcontinental Ry. at St. Malo.

Flesherton, Ont.—The Town Council has passed a bylaw authorizing the extension of the hydro-electric system in Flesherton, at a cost of about $5500. W. H. Thurston is Town Clk.

Toronto, Ont.—The Board of Education will purchase engines, generators and other equipment for the new technical building at a total cost of about $45,000. W. C. Wilkinson is Secy. and Treas. of the Bd.

Walkerville, Ont.—The Town Council plans to install a new distributing system for the hydro-electric plant to cost about $26,000. C. H. Robinson is Clk.

Williamsburg, Ont.—The Town Council will build a new distributing system to cost about $5000. George Lane is Town Clk.

New Denver, B. C.—It is reported that the New Denver Power Co. is having plans prepared for rebuilding its power plant which was burned last summer. The company will also extend its transmission lines into adjacent districts.

BRIDGES

†Portland, Maine—The following bids were opened Nov. 2, by the Commissioners of Cumberland County for the construction of a bridge between Portland and South Portland, (Div. A) foundation work; (Div. B) steel superstructure of the middle portion, including the draw; (Div. C) concrete superstructure of the rest of the bridge. Noted Sept. 24 and Oct. 1.

	Div. A	Div. B	Div. C
Lackawanna Bridge Co., New York	.....	$168,742	.....
Foley Contracting Co., New York	$403,600	171,800	$207,000
McClintic-Marshall Co., Boston	.....	171,800	.....
P. J. Carlin Construction Co., New York	394,500	161,000	358,000
T. L. Eyre, Philadelphia	281,000	.....	281,000
The Foundation Co., New York	495,888	.....	.....
McArthur Bros. and the Foundation Co., N. Y.	490,385	155,000	290,000
Phœnix Bridge Co., Boston	.....	139,650	.....
Pennsylvania Steel Co., Boston	.....	147,400	.....
American Bridge Co., Boston	.....	156,500	.....
H. P. Converse & Co., Boston	345,181	160,273	279,599
Walsh Construction Co., Albany, N. Y.	380,000	170,000	270,000
T. Stuart & Son Co., Newton, Mass.	337,000	.....	250,000
John Cashman & Sons, Boston, and Roy H. Beedy	325,000	.....	.....
Frawley-Kaufman Contracting Co., New York	.....	.....	328,000
McHarg-Barton Co., New York	324,700	.....	307,886
Boston Bridge Works, Boston	.....	149,485	.....
Fraser, Brace & Co., New York	484,349	.....	353,420
John Monks & Sons, New York	559,800	.....	.....
Fred T. Ley & Co., Springfield, Mass.	.....	.....	331,687
O'Brien Construction Co., New York	.....	.....	300,000
Fort Pitt Bridge Works, Pittsburg.	.....	215,677	.....
A. W. Kurz, New York	.....	172,500	.....
Strobel Steel Construction Co., Chicago	.....	159,800	.....
Holbrook, Cabot & Rollins, Boston.	324,000	.....	315,000

†Buckland, Mass.—(Official)—The State Highway Commission has awarded the contract for the construction of a reinforced concrete bridge at Buckland to the HYNES CONSTRUCTION CO., Springfield, Mass. There were 13 other bidders. Noted Oct. 29.

Bristol, Conn.—(Official)—Bids will be received until 7 p.m., Nov. 17, by Thomas B. Steele, City Clk., for the construction of two small bridges, one on Pond St. and the other on Terryville Rd. Carleton W. Buell is City Engr. Noted Oct. 22.

New Britain, Conn.—(Official)—Bids will be asked about the first of the year for the construction of a bridge on Rhodes St., for which the Board of Public Works was recently asked to make an appropriation. W. H. Hall is City Engr. Noted Nov. 5.

Hopewell, N. J.—It is reported that the Philadelphia & Reading Ry. plans to build a new steel bridge over its tracks at Greenwood Ave. William Hunter, Philadelphia, Penn., is Ch. Engr.

Perth Amboy, N. J.—The Board of Chosen Freeholders of Middlesex County will shortly authorize repairs to the county bridge at Perth Amboy at an approximate cost of $15,000. Alvin B. Fox, Perth Amboy, is County Engr.

Pine Brook, N. J.—The Boards of Chosen Freeholders of Essex and Morris Counties have approved the plans prepared by Frederick A. Reimer, County Engr. of Essex County, for a bridge over the Passaic River at the Essex and Morris County boundary line. It will have three 50-ft. spans, and is estimated to cost $17,500. Noted May 14 and May 21.

Philadelphia, Penn.—Included in the bond issue of $11,300,000 which was voted by the citizens at the recent general election, is the sum of $300,000 to be used for the construction of new bridges. M. L. Cooke is Dir. Dept. of Pub. Wks.

Christiansburg, Va.—(Official)—Bids will be received until noon, Nov. 18, by the Clerk of the Circuit Court of Montgomery County for the construction of a bridge over Thomas Creek near Whitethorne. It will be about 80 ft. long with a 12-ft. roadway.

Covington, Va.—(Official)—Bids will be received until noon, Nov. 18, by the Clerk of the Circuit Court of Alleghany County for the construction of a 102-ft. bridge over Dunlap Creek at Sampson Damron Ford. The Childrey Co., Richmond, Va., is Engr.-in-Charge.

Roanoke, Va.—The Norfolk & Western Ry. plans the construction of concrete culverts and three iron bridges with concrete piers in connection with the building of a branch line, about five miles long, along Wolf Creek from Narrows, Giles County. J. E. Crawford, Roanoke, is Ch. Engr.

Jacksonville, Fla.—The Ponce de Leon Bridge Co. has been incorporated with a capital stock of $30,000 and will build a bridge over the North River from Kruth's Island to the Gardiner property.

Cleveland, Ohio—At the recent general election, the citizens voted in favor of a bond issue of $5,000,000 to be used for the construction of a high-level bridge across the Cuyahoga River from Lorain Ave. to Ontario St. Frank T. Andrews is Chn., Bd. of County Comrs. Noted Oct. 29.

Columbus, Ohio—(Official)—Bids will be received until noon, Nov. 30, by the Board of Commissioners of Franklin County for building approaches to the Hellbranch Bridge at Pisgah Hill on the London and Lancaster Road, Pleasant Township; Engineer's Estimate No. 146. John Scott is Clk. of County Comrs.

Fremont, Ohio—The Board of Commissioners of Sandusky County has directed the County Engineer to prepare plans for a bridge across Sugar Creek and another one over the Snyder Ditch.

†Hamilton, Ohio—The Board of Commissioners of Butler County has awarded the contract for the construction of Kings Bridge over Indian Creek, Reily Township, to C. C. UMEL & SON, Hamilton, at $4400.

Marietta, Ohio—(Official)—Bids will be received until 1 p.m., Dec. 1, by the Board of Commissioners of Washington County, for the construction of the Cow Run Bridge, Lawrence Township, and the Chuffy Bridge, Waterford Township. W. B. Alexander is County Audr.

Lansing, Mich.—(Official)—Bids will be received until noon, Dec. 1, by Frank F. Rogers, State Highway Comr., for the construction of a 130-ft. riveted pratt truss over the Tittabawassee River, Jerome Township, Midland County.

Danville, Ill.—(Official)—At the recent election, the question of a bond issue of $80,000 for the construction of a bridge over the North Fork River at Bridge St. was carried. It is uncertain when plans will be completed and ready for bids. W. H. Martin is City Engr. Noted Sept. 24 and Oct. 8.

Ottawa, Kan.—The Commissioners of Franklin County are asking bids for the construction of a bridge over the Marais des Cygnes River at Richter. An appropriation of $8000 has been made for this structure.

Salina, Kan.—The citizens of Salina Township have voted $25,000 in bonds for the construction of a bridge over the Grand River at Salina.

Salina, Kan.—(Official)—Bids will be advertised about Dec. 1 for the construction of a concrete bridge over the Smoky Hill River at Iron Ave., Salina. Bids will be received by the Board of Commissioners of Saline County. Wilmarth & Zerbe, Consult. Engrs., prepared the plans. A. W. Godfrey is County Clk. Noted Aug. 27.

Mitchell, S. D.—(Official)—Bids will be received until 2 p.m., Dec. 1, by R. A. Zangle, Audr. of Davison County, for the construction of all county bridges during the ensuing year.

Sioux Falls, S. D.—(Official)—Bids will be received until Nov. 21, by the Board of Commissioners of Minnehaha County for building all bridges, abutments and approaches in the county during 1915. Harry H. Howe is County Audr.

St. Louis, Mo.—At a special election held Nov. 6, the citizens voted in favor of issuing $2,750,000 in bonds for the purpose of completing the Free Bridge over the Mississippi River. It is understood that the work will be begun as soon as arrangements can be made. This bond issue has been defeated at three previous elections. James A. Hooke is Dir. of Pub. Utilities. Noted May 14 and Oct. 22.

Little Rock, Ark.—The County Levy Court of Pulaski County has appropriated $5000 for the construction of a bridge over the Arkansas River between Little Rock and Argenta.

Pine Bluff, Ark.—The Board of Public Affairs has rejected as too high all bids received, Oct. 23, for the construction of a reinforced-concrete bridge over Brump's Bayou at Fifth Ave. F. R. Allen is City Engr.

†Cleburne, Tex.—The City Council has awarded the contract for the construction of a concrete bridge over East Buffalo Creek to R. L. DAVIDSON.

Houston, Tex.—(Official)—Bids will be received until 10 a.m., Nov. 16, by H. L. Washburn, Audr. of Harris County, for the construction of six concrete culverts and one combination timber and concrete bridge on the Alascoceta Road.

†Lampasas, Tex.—The Commissioners Court of Lampasas County has awarded the contract for the construction of four bridges in the county to HESS & SKINNER, Dallas. A bond issue of $14,000 was voted last summer to pay for this work. Noted Aug. 6.

†Sherman, Tex.—The Commissioners Court of Grayson County has awarded the contracts for the construction of a bridge over Shannon Creek and one over Choctaw Creek, nine and ten miles respectively northeast of Sherman, to the WESTERN BRIDGE CO., Sherman.

Colorado Springs, Colo.—The two lowest bids received Oct. 21, by the City Council for rebuilding the Bijou Viaduct were: Fox & Smith, Florence, Colo., $14,500 for the two west arches, or $32,000 for viaduct complete; the Martin Carroll Co., Kansas City, Mo., $21,000 for two west arches, or $39,686 for viaduct complete. Noted Aug. 27.

Seattle, Wash.—It is reported that bids will soon be asked by A. L. Valentine, Chn. Bd. of Pub. Wks., for the construction of a drawbridge over the Duwamish Waterway at Eighth Ave., Southeast. It will cost about $40,000. A. H. Dimock is City Engr.

The following bids were opened recently for the construction of the Fairview Bridge: C. Geske & Co., $20,824; Elmer Johnson, $21,279; A. Rydstrom, $26,651; J. R. Wood, $22,574; Weymouth Construction Co., $24,423; Sound Construction Co., $29,337; Hanson & Co., $22,549; P. J. McHugh, $25,181; P. Manson, $22,700.

†Redwood City, Calif.—The Board of Supervisors of San Mateo County has awarded a contract for the construction of a timber and concrete bridge in the Third Township to BARRETT & HILP, San Francisco, Calif., at $5308, and a contract for the construction of a bridge in the Fourth Township to SAVAGE BROS., San Francisco, at $6759.

†Santa Barbara, Calif.—(Official)—The following bids were received, Oct. 15, by the City Council, for the construction of two bridges on the East Blvd., (a) bridge over Alisos Creek, (b) bridge over Salinas Creek: BOARDMAN CONSTRUCTION CO., Los Angeles, (a) $11,890 (awarded contract), (b) $13,303; Mercereau Bridge & Construction Co., Los Angeles, (a) $15,244, (b) $12,224; Russell-Green-Foell Co., Los Angeles, (a) $13,682, (b) $12,827; Mesmer & Rice, (a) $14,100, (b) $12,542; MUNOZ & MUNOZ, Los Angeles, (a) $14,610, (b) $11,324 (awarded contract); E. F. Edwards, Santa Barbara, (a) $14,780, (b) $11,850; Magnus Johnson, (a) $14,188, (b) $12,282. Noted Oct. 1 and Oct. 29.

Halifax, N. S.—Bids will be received until Nov. 25 by the Road Commissioner, Halifax, for the construction of 80 culverts and small bridges on the Windsor-Walton Rd.

St. Hilaire, Que.—Bids will be received until Dec. 7, by J. E. N. Desrochers for the Municipal Council for the construction of three bridges, reinforced concrete abutments and steel superstructures.

†St. Catharines, Ont.—The Civic Works Committee has awarded the contract for the concrete substructure of the St. Paul St. High Level Bridge to CAMPBELL & LATTIMER, Toronto, Ont., at $21,744. This sum is about $10,000 less than the engineer's estimate. Noted Oct. 8.

Winnipeg, Man.—The Board of Control has instructed the city bridge department to prepare plans for bridges over the Assiniboine River at Main, Maryland and Arlington St. W. P. Brerton is City Engr.

WATER SUPPLY—IRRIGATION

Auburn, Maine—The proposed reservoir in East Auburn will not be constructed this year, according to press reports. F. E. Bisbee is Supt. of Water Wks. Noted Oct. 22.

Boston, Mass.—The date for receiving bids for laying two miles of high-service water pipe in South Boston has been postponed from Nov. 16 to Nov. 20. L. K. Rourke is Comr. of Pub. Wks. Noted Nov. 5.

Hartford, Conn.—The Farmington River will be used as an emergency water supply. Two 2,000,000 gal. per day units will be installed. The estimated cost is $30,000. C. M. Saville is Ch. Engr.

Churchill, N. Y.—An election will soon be held to vote on the question of issuing bonds for the construction of a water system.

✚Lyons, N. Y.—The contract for 2123 tons of c.-i. pipe has been awarded by the Village Clerk to U. S. CAST IRON PIPE & FOUNDRY CO., at $19.60 per ton. Bids opened Oct. 17. Noted Oct. 8.

Troy, N. Y.—Bids will probably soon be received for laying 17,500 ft. of 30-in. pipe and specials for the water system. John M. Diver is Supt. of the Water Wks.

★Wappingers Falls, N. Y.—(Official)—Bids will be received by the Board of Trustees, until 8 p.m., Nov. 18, for the construction of a water system, including a 5,000,000-gal. reservoir. H. L. Sterling, 56 Second St., Newburgh, is Engr.

Jersey City, N. J.—Bids will be received by the City Purchasing Agent, City Hall, until 2 p.m., Nov. 12, for 200 fire hydrants.

Altoona, Penn.—(Official)—The State Department of Health has approved plans for the construction of a distributing system and a reservoir.

Dayton, Penn.—(Official)—A water system will be installed at Dayton. Plans have been approved by the State Department of Health.

Glasgow, Penn.—(Official)—Plans have been approved by the State Department of Health for the construction of driven wells and a distributing system.

Jamestown, Penn.—(Official)—A water system will be installed at Jamestown. Plans have been approved by the State Department of Health.

Philadelphia, Penn.—The citizens voted in favor of issuing bonds for $1,150,000 for the extension and improvement of the water system.

Red Lion, Penn.—(Official)—An impounding reservoir and pumping station will be constructed at Red Lion. Plans have been approved by the State Department of Health.

Stroudsburg, Penn.—(Official)—Plans have been approved by the State Department of Health for the construction of a gravity main and for a new source of supply.

Baltimore, Md.—The installation of new water and sewer systems at the House of Correction is contemplated by the Board of Directors. The estimated cost is $25,000.

✚Fort Mill, S. C.—The contract for laying water mains has been awarded to B. J. ROBERTS, Atlanta, Ga., at $9250.

✚Palmetto, Fla.—Contracts have been awarded by the Council to PLATT IRON WORKS, Atlanta, Ga., for pumps, and to NATIONAL STEAM PUMP CO., Jacksonville, for engines for the water-works. Bids opened Oct. 26. Noted Oct. 22.

Gulfport, Miss.—(Official)—All bids received Nov. 3 for the construction of a water system have been rejected. The contract has been readvertised and bids will be received until Nov. 12. Hobart D. Shaw is City Engr. Noted Oct. 29.

✚Vicksburg, Miss.—Contracts have been awarded by the City Commissioners for Div. 1, c.-i. pipe, to U. S. CAST IRON PIPE & FOUNDRY CO., Chattanooga, Tenn.; Div. 2, specials, to COLUMBIAN IRON WORKS, Chattanooga, Tenn.; Div. 3, 4, 5, laying pipe, to SOUTHERN PAVING & CONSTRUCTION CO., Chattanooga; Div. 9-B, coagulating basin and clear water basin, BASH & GRAY, Joplin, Mo.; Div. 11, power house, to R. B. HOWARD, Vicksburg; Div. 16, grading and drainage, to SOUTHERN PAVING & CONSTRUCTION CO.; Div. 19, venturi meters, BUILDERS IRON FOUNDRY, Providence, R. I.; Div. 21, filter, NEW YORK CONTINENTAL JEWELL FILTRATION CO., New York, N. Y. Bids opened Oct. 19. Noted Oct. 15.

✚Cleveland, Ohio—The contract for constructing the administration building, gate houses and filter superstructure of the west side filtration plant has been awarded by the Board of Control to F. W. MARK CONSTRUCTION CO., Leader-News Bldg., Cleveland, at $98,369. Noted Oct. 8.

Springfield, Ohio—Bids will be received, until Nov. 13, by Charles A. Ashburner, City Mgr., for supplies for the water-works, as follows: 800 tons of 6-in. c.-i. pipe, 1000 curb boxes, 1000 ferrules, 100 roadway boxes, 55 valves, 30 car hydrants and 20 tons of lead.

✚Joliet, Ill.—The contract has been awarded, according to press reports, to NEWKIRK & POWERS CONSTRUCTION CO., Joliet, at $20,454, for constructing a 4,000,000-gal. concrete storage reservoir. Noted Oct. 1.

Paris, Ill.—An election will be held, Nov. 17, to vote on the question of issuing $90,000 in bonds, the proceeds of which will be used for the construction of a new reservoir. Noted Oct. 29.

Wyanet, Ill.—The citizens contemplate installing a water system at Wyanet.

Oconomowoc, Wis.—Bids will be received, until Nov. 14, by C. H. Schoenike, City Clk., for c.-i. pipe, as follows: 6½ tons 4-in., Class C, water pipe; 22 tons 6-in., Class C; ½ ton 12-in., Class B; for laying 1200 lin.ft. of 6-in. water mains and for laying 1400 ft. of 12-in. sewer pipe. Noted Aug. 27.

Sheboygan Falls, Wis.—A resolution has been passed by the Council for the construction of a municipal water-works.

✚Lincoln, Neb.—The contract for machinery for the water works has been awarded to MERKLE HINES MACHINERY CO., Kansas City, Mo. Bids opened Oct. 15. Noted Oct. 8.

Billings, Mont.—Bids will be received, until Dec. 1, by the City Council, for the purchase of $450,000 in bonds. The proceeds will be used for the construction of a water system. Noted Oct. 15.

New Haven, Mo.—Bonds for $10,000 have been voted by the citizens, the proceeds of which will be used for the improvement of the municipal water system and for the establishment of an electric light system.

Electra, Tex.—Bids will soon be received by the city for the construction of a reservoir and for laying water mains. Noted Oct. 1.

Franklin, Tex.—The City Council contemplates spending $15,000 for the construction of a water system and electric light system.

Marshall, Tex.—The City Commission has authorized the drilling of a well 3000 ft. deep for the water system.

Texas City, Tex.—An election will be held, Dec. 2, to vote on the question of issuing bonds for $85,000, the proceeds of which will be used for the purchase and improvement of the present water system and for the construction of an independent system of water supply. John W. Maxcy, Houston, is Engr.

Kellogg, Idaho—The Bunker Hill & Sullivan Co. will petition the Council for a franchise for the construction and operation of water and electric light systems. Walter C. Clark is Pres.

Payette, Idaho—An election will be held, Nov. 14, to vote on the question of issuing bonds for $6000, the proceeds to be used for the installation of a filtration plant at the water-works.

Seattle, Wash.—G. Argentier, at $7011, was low bidder for laying water mains in Graham St. Noted Oct. 15.

The City Council has authorized the laying of water mains in 13th Ave. S. and in 38th Ave. S. W.

✚Hood River, Ore.—The contract for constructing the headworks for the East Fork Irrigation district has been awarded to ANDRUS & BODE CO., Portland, at $19,160. Noted Oct. 29.

Oregon City, Ore.—(Official)—Bids will be received by the South Fork Water Commission, until 2 p.m., Nov. 21, for constructing subdivisions Nos. 1 and 2 of the South Fork Water Supply System. About 25 miles of pipe will be required. William Abdresen is Chn. Noted Oct. 8.

✚Calexico, Calif.—The contract for constructing a concrete sand filter and washer has been awarded by the city to BLAISDELL FILTRATION CO., Pacific Electric Bldg., Los Angeles, at $11,000. Noted Aug. 20.

Menlo Park, Calif.—The Bear Gulch Water Co. will make improvements to its plant, estimated to cost $250,000.

Orange, Calif.—The Aid Water Co. has been organized by W. D. Baker, M. O. Ainsworth and G. L. Bates. A well will be driven and a pumping plant constructed for the irrigation of orange groves.

Reedley, Calif.—The City Trustees have decided to install an auxiliary pumping plant with a capacity of 600,000 gal. daily.

Riverside, Calif.—The Red Mountain Water Co., recently incorporated with $100,000 capital, will construct an irrigation system in Inyo County. F. A. Little is interested.

✚San Diego, Calif.—The contract for material for the 24-in. steel pipe line has been awarded by the city to LLEWELLYN IRON WORKS, Los Angeles, at $59,400.

Susanville, Calif.—Surveys are being made by the Baxter Creek Co. for the extension of its irrigation system.

Fort Rouge, Ont.—Bids will be received by E. Hamel, Secy.-Treas. of St. Jeanne de Newville, until Nov. 16, for making extensions to the water system.

Galt, Ont.—The Town Council will improve and extend the water system, at an estimated cost of $55,000. James McCartney is Clk.

Ottawa, Ont.—Bids will be received, until Nov. 15, by the City Council, for one 15,000,000-gal. electrically driven pump for Limieux Island Low Level pumping station. F. C. Askwith is City Engr.

Port Hope, Ont.—Bids will be received, until 2 p.m., Nov. 16, by R. Gray, Secy., Water Comrs., for laying steel pipe in Lake Ontario. F. W. Thorold Co., 2 Toronto St., Toronto, is the Engr.

★Toronto, Ont.—(Official)—Bids will be received by the Chairman, Board of Control, City Hall, until noon, Nov. 24, for laying a 72-in. steel conduit from the Mechanical filtration plant to the 72-in. and 84-in. steel conduits on Toronto Island. H. C. Hocken is Chn. For details see advertisement under "Contracts to Be Let."

Moose Jaw, Sask.—Plans are being prepared by George E. Mackie, City Engr., for extensions to the water system. The estimated cost is $25,000.

SEWERS

Boston, Mass.—Press reports state that the wooden sewers in the business district will be replaced by concrete sewers at an estimated cost of $150,000. L. K. Rourke is Comr., Pub. Wks.

Boston, Mass.—Bids will be received by the Board of Public Works until Nov. 18 for constructing sewers in Beach, Broad, Kilby and Water St. L. K. Rourke is Comr.

✚Waterbury, Conn.—The contract for constructing sewers in Albion, Idylwood Ave., Fleming, Willow and South Leonard St. has been awarded to ANTONIO LAMBO, New Haven, Conn., at $5369, by the Board of Public Works. Other bidders were Barbara & D'Aurio Co., $7199, and Thomas Eagan, $6085.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids were received for constructing a sewer in New Lots Ave. The low bidder was B. Picone & Son, at $5443. Noted Nov. 5.

✚**Schenectady, N. Y.**—The contract for constructing two miles of sanitary sewer has been awarded to THOMAS F. MacGREGOR, Jay St., Schenectady, at $7939. Noted Oct. 28.

★**Wappingers Falls, N. Y.**—(Official)—Bids will be received by the Board of Trustees, until 8 p.m., Nov. 18, for constructing a sewer system for Wappingers Falls. Edward M. Drake is Pres. and H. L. Sterling, 56 Second St., Newburgh, is Engr. For details see advertisement under "Contracts To Be Let."

Camden, N. J.—Bids will be received, until Nov. 16, by the Committee on Streets and Highways, for constructing sewers in Boyd, Berwick, Berkley, Garden and 20th St. and Marlton Ave. J. C. Haines is Chn.

✚**Clinton, N. J.**—Contracts have been awarded for constructing a sewer system and sewage disposal plant at the State Reformatory for Women to SUBURBAN ENGINEERING CO., New York, N. Y.; GIBBS & BUCHICCHIO, Trenton, and NEW YORK SEWAGE DISPOSAL CO., New York, N. Y.

★**Dunellen, N. J.**—(Official)—Bids will be received by the Borough Council until 8 p.m., Dec. 7, for constructing a sewage collecting system. For particulars see advertisement under "Contracts to Be Let."

✚**Greenwood Lake Glens** (Lakeside post office), **N. J.**—The contract for constructing a sewage disposal plant and sewer system has been awarded by R. M. Ekins, 152 Market St., Paterson, to FRANK PUGLIA, 34 Cross St., Paterson, at $7900 for the sewage disposal plant and for pipe at 95c. and $1.40 per ft. Noted Oct. 15.

Manasquan, N. J.—Bids will be received, until Nov. 17, by the Mayor and Council for laying about 4000 ft. of sewer pipe, 4200 ft. of water pipe and constructing a sewage clarification tank. Pugh & Hubbard, Witherspoon Bldg., Philadelphia, Penn., are the Engrs.

North Bergen (Weehawken post office), **N. J.**—The North Bergen Township Committee has adopted an ordinance for the construction of sewers and for a sewage disposal plant for the southern section of North Bergen.

Rahway, N. J.—The Common Council has authorized the purchase of property in Haydock St., to be used as a site for a sewage disposal plant.

Trenton, N. J.—Press reports state that bonds for $32,400 have been sold, the proceeds of which will be used for the construction of sewers and drains.

Norristown, Penn.—(Official)—At a recent election the citizens voted against the question of issuing bonds for $100,000 for the construction of a sewage disposal system. S. C. Corson is Borough Engr. Noted Oct. 1.

Oak Lane (Philadelphia post office), **Penn.**—The citizens contemplate the installation of a sewer system.

Philadelphia, Penn.—The citizens voted in favor of issuing bonds for $1,150,000 for the extension of the sewer system.

Tarentum, Penn.—A plan has been agreed upon by Tarentum and Brackenridge for the construction of a sewage disposal plant. W. A. Gibson is Town Secy. of Tarentum and George H. Dickey is Town Secy. of Brackenridge. Noted Oct. 15.

★**West Chester, Penn.**—The contract for constructing 12,500 ft. of sanitary sewer extension has been awarded to M. & T. E. FARRELL, West Chester at $6320. Oher bids were: W. P. Davis, West Chester, $11,979, Dunleavy Bros., Coatesville, $7902; Bruno Puzzimento, Seneca Falls, N. Y., $11,218.

Baltimore, Md.—At an election held Nov. 3, bonds for $3,000,000, the proceeds of which to be used for the completion of the sewer system, were voted. H. K. McCay is City Engr.

Eustis, Fla.—The citizens will vote on the question of issuing bonds, the proceeds to be used for the construction of a sewer system. J. H. Kennedy is Mayor.

Ocala, Fla.—At an election held Oct. 27, the citizens voted in favor of issuing bonds for $100,000 for the construction of sewers. Noted Oct. 8.

Lookout Mountain, Tenn.—Press reports state that a septic tank for sewage disposal will be installed at Lookout Mountain.

Memphis, Tenn.—Bids were received for constructing a lateral sewer in Fourth St. between Market and Monroe Ave. as follows: B. C. Pouncy, $14,908; V. F. Garvin, $19,404; G. O. White & Co., $19,064; Noll Construction Co., $24,730; T. A. Garvin, $19,021; F. D. Harvey & Co., $13,926.

✚**Canton, Ohio**—The contract for constructing the Tuscarawas St. sewer has been awarded to GLEN HEADLEY at $14,500.

Dodgeville, Wis.—Bids will be received by E. L. Williams, City Clk., until 9 a.m., Nov. 20, for constructing sewers in Eldorado St. and De Forest Ave.

Oconomowoc, Wis.—See item under "Water Supply-Irrigation."

✚**Burlington, Iowa**—The contract for constructing the Louisa St. sewer and its branches has been awarded to HOLMES & WALTER CONSTRUCTION CO.

Keota, Iowa—According to press reports the City Council contemplates the installation of a sewerage system.

Postville, Iowa—At a recent election the citizens voted in favor of issuing $25,000 in bonds for the installation of a sewerage system. Noted Oct. 8.

Barnesville, Minn.—The City Council rejected all bids received Oct. 23, for extending the sewer system. The work will be done by day labor.

✚**Blooming Prairie, Minn.**—A contract for constructing a sewer system has been awarded to W. DANFORTH, St. Paul, Minn., at approximately $15,000.

✚**Owatonna, Minn.**—A contract for constructing a sanitary sewer system has been awarded to W. DANFORTH at $15,914. Other bids were: Green Constructing Co., $16,378; William C. Frazer, $17,582, Kirchu Bros., $18,180, William Bosworth, $18,318; Sykes Co., $18,418, Beogan-Adams $18,440; Illstrup & Olson, $16,612.

Red Lake Falls, Minn.—Bids will be received by I. Lemieux, Secy. Bd. of Education, until 1 p.m., Nov. 13, for constructing a sewer. The work includes 11,040 ft. 8- and 12-in. pipe.

✚**Fort Scott, Kan.**—A contract for constructing a sewage and purification plant has been awarded to McCOY & TAYLOR, Kansas City, Mo., at $19,907. Other bids were: Clements & Louery, Coffeyville, Kan., $21,265; Horton Concrete Construction Co., Kansas City Mo., $22,001. O'Neil Construction Co., Leavenworth, Kan., $23,147. Noted Oct. 1 and 22.

✚**Olathe, Kan.**—(Official)—The contract for constructing main sewer No. 3, lateral sewers Nos. 1 and 2 in Sewer District No. 3 and lateral sewer No. 11 in Sewer District No. 1 has been awarded to EVERETT & BURT, Hutchinson, Kan., at $11,586. Other bids were: James Stanton, $15,971; Stock & Curry, $15,733; J. H. Cosgrove, $13,973; McCoy & Taylor, $12,959; Middleton & Ludlow, $12,501. Noted Oct. 29.

Springfield, Mo.—The City Council contemplates an expenditure of $30,000 for sewer construction.

✚**Argenta, Ark.**—(Official)—A contract for constructing sewers in Sewer District No. 1 has been awarded to MARINO, BROOKS & BURKHAM, St. Louis, Mo., at $228,477. Other bids were: R. Mobley, Argenta, Ark., $251,165; F. D. Horton & H. C. Gass, Houston, Tex., $281,008; Southern Asphalt Construction Co., $256,947; Jacob Althaus & Co., St. Louis, Mo., $289,587; William S. Riley, St. Louis, Mo., $281,197. Noted Oct. 29.

Cleburne, Tex.—The City Council contemplates constructing a sewer system.

Houston, Tex.—(Official)—At an election held Oct. 28 the citizens voted in favor of issuing $2,000,000 in bonds for sanitary and storm sewage disposal.

Texas City, Tex.—An election will be held Dec. 2, to vote on the question of issuing $25,000 in bonds, the proceeds of which will be used to purchase and extend sewer system and develop and construct independent separate system of sanitary sewers and sewage-disposal plant. John W. Maxey is Engr.-in-Charge.

Portland, Ore.—According to press reports the City Commission contemplates constructing a concrete storm sewer in Fulton Park and Carson Heights. The work includes 3040 ft., 51- to 43-in. and 1024 ft., 51- to 52-in. pipe. The estimated cost is $34,604. A. L. Barbur is City Audr.

Bids were received Oct. 21 by the City Commission for constructing vitrified pipe sewers on Long and 45th Ave. as follows: Edward Sandeberg, $15,064; Abraham Son & Co., $15,646; John Keating, $15,739; C. G. Randles, $16,558.

Etna, Calif.—The Town Trustees will receive bids soon for the construction of a sewer system for which $21,000 in bonds have been voted.

Los Angeles, Calif.—Bids will be received by the Board of Public Works until 10 a.m., Nov. 30, for constructing a reinforced concrete Imhoff sewage disposal tank at Wilmington. The estimated cost is $5800. H. B. Ferris is Secy. of the Bd.

✚The contract for constructing a sewer in Fifth St. between Van Ness and Westminster Ave. has been awarded to ANDREW JAYICH at $5200.

Hamilton, Ont.—The City Council contemplates an expenditure of $130,000 for constructing sewers in the eastern section of the city. M. A. F. McCallum is Engr.-in-Charge.

GARBAGE

Boston, Mass.—Bids will be received, until Nov. 16, by the Board of Public Works, for the removal of snow and ice for the winter season, 1914-1915. L. K. Rourke is Comr.

Jersey City, N. J.—The following were low bidders for the removal of ashes and garbage for a period of one year: Montgomery & Conlin, $81,000 (separated); Thomas Harrington Sons Co., $85,000 (unseparated). Noted Oct. 15.

Louisville, Ky.—The Board of Public Safety contemplates the installation of a garbage incinerator.

Akron, Ohio—The city contemplates the construction of a waste reduction plant for the disposal of old bottles, rubbish and garbage.

Superior, Wis.—The city plans to build a garbage incinerator. The amount available is $18,000. C. M. Gould is Health Comr.

Hot Springs, Ark.—The City Council has authorized the Board of City Affairs to receive bids for the construction of a garbage incinerator.

San Francisco, Calif.—(Official)—Neil H. McKay, Consult. Engr., 247 Tenth Ave., San Francisco, is preparing plans and specifications for a refuse and garbage incinerating plant and wishes to get into communication with leading incinerator companies.

STREETS AND ROADS

Boston, Mass.—Bids will be received, until Nov. 17, for the construction of 6600 lin.ft. of state highway in Dudley. Arthur W. Dean, of Ashburton, Penn., is Ch. Engr. of Highway Comm.

✚The contract for paving Fabyan St., Dorchester District, has been awarded to MARTINO DE MATTEO, at $5998. Other bids were: Central Construction Co., Hugh J. McGuire, John F. Beatty, J. J. McCarthy, James Doherty, W. J. Rafferty Co., Warren Bros Co., and John F. Lynch.

Boston, Mass.—Bids will be received until Nov. 13, for roadway construction on St. Andrew Rd. East Boston, and on St. Albans St., West Roxbury. L. K. Rourke is Comr. of Pub. Wks.

Bids will be received until Nov. 16, for paving Dempster and Greenleaf St. in Roxbury District. L. K. Rourke is Comr. of Pub. Wks.

✚The contract for the construction of 9000 lin.ft. of road in Montague, has been awarded to the LANE CONSTRUCTION CORPORATION at $4825. Other bids were, Fred E. Ellis, $5215; New England Contracting Co., $5245; Horne-Lowe Constructing Co., $5274; O. T. Benedict, $5485; D. O'Connell & Sons, $6105; Flynt Granite Co., $6350.

✚The contract for 14,000 lin.ft. of road in Williamstown, has been awarded to the COLUMBUS CONSTRUCTION CO., at $13,641. Other bids were: R. F. Hudson, $15,514; Horne-Lowe Con-

structing Co., $15,686; Fred E. Ellis, $16,096; Way & Cellilli, $16,475; E. J. Rourke, $16,687; O. T. Benedict, $17,351; Lane Construction Corporation, $17,390; Floyd Granite Co., $25,627. Noted Oct. 29.

+Dorchester, Mass.—A contract for road construction on Browning Ave. has been awarded to HUGH J. McGUIRE, Milbury St., Worcester, Mass., at $20,000.

+Holyoke, Mass.—The contract for renewing the asphalt wearing surface of Maple St. from Dwight to Hampden St. has been awarded to DANIEL O'CONNELLS SONS CO.

+Hartford, Conn.—The State Highway Commission has awarded the contract for road construction in Torrington Township, about 8078 lin.ft. 4-in. macadam resurfacing on the Litchfield Rd. to JOHN DE MICHIEL & BRO., Torrington, at $6152. Other bids were: Louis Longhi & Bro., Torrington, Conn., $8301; Connecticut Good Roads & Construction Co., New Britain, $7974; Olin T. Benedict, Pittsfield, Mass., $8253; J. E. Driscoll, Torrington, $9593; Goodman & Trumbull Co., Litchfield, $8244; John Arborio, 172 Congress Ave., New Haven, $8244; B. D. Pierce, Jr., Co., Bridgeport, $7560; A. C. Sternberg, Jr., Construction Co., West Hartford, $6566. Noted Oct. 29.

+Penn Yan, N. Y.—A contract for constructing a road from Eureka St., Penn Yan, to Esperanza, has been awarded to C. N. KELLY, Penn Yan.

Bordentown, N. J.—The Burlington County Good Roads Association is negotiating with the Board of Commissioners for the improvement of the highway between Bordentown and Burlington.

Jersey City, N. J.—Plans are being prepared by C. A. Van Keuren, City Engr., for the improvement of Summit and Sip Ave. M. I. Fagan is City Clk.

+Newark, N. J.—The contract for paving 14th Ave. has been awarded to the NEWARK PAVING CO., at $4766.

+The contract for paving Grafton, Lanark, and Marion Ave. with asphalt block has been awarded to JOHN GEIGER'S SONS, INC., Newark, at $28,515.

Perth Amboy, N. J.—S. J. Mason, City Engr., has completed plans for the improvement of Amboy Ave., at an estimated cost of $15,000.

Harrisburg, Penn.—Bids will be received by the State Highway Department, until Nov. 24, for reconstructing 20,158 lin.ft. of brick block pavement in Butler, Summit and Jefferson Townships in Butler County. E. M. Bigelow is Highway Comr.

+Philadelphia, Penn.—The contract for paving Wayne Ave. from Lincoln Ave. to Hortter St. and between Hortter and Arbutus St., has been awarded to the McNICHOL PAVING & CONSTRUCTION CO. at $17,633.

At the recent election the citizens voted in favor of issuing $1,350,000 in bonds for improving streets and roads.

+Williamsport, Penn.—The contract for paving West Third St., from Pine to William St., has been awarded to B. H. CORYELL.

Baltimore, Md.—Bids will be received until Nov. 24, by the State Roads Commissioners, Garrett Bldg., Baltimore, for the construction of four sections of State Highway in Washington County.

+Charleston, W. Va.—A contract for paving a number of streets with asphalt has been awarded to R. M. HUDSON, Atlanta, Ga., at approximately $150,000.

Moundsville, W. Va.—(Official)—Bids will be received by J. E. Chase, County Clk. until noon, Nov. 18, for improving a portion of the Glendale Rd. is Washington District.

Asheville, N. C.—Bids will be received by C. H. Neal, Rd. Engr., until Dec. 6, for constructing seven miles of bituminous macadam road.

Centerville, Ala.—According to press reports bids will be received by the Commissioners of Bibb County, until Nov. 25, for improving the Centerville and Blockton Rd. W. S. Keller is State Highway Engr.

Wartburg, Tenn.—At a recent election the citizens of Morgan County voted in favor of issuing $27,000 in bonds for road improvements.

Covington, Ky.—(Official)—Bids will be received by the Fiscal Court of Kenton County until 10 a.m., Nov. 17, for improving a section of the county road. E. O. Mills is Rd. Engr.

Grayson, Ky.—The citizens of Carter County have voted in favor of issuing $150,000 in bonds for building roads.

Shelbyville, Ky.—The Fiscal Court of Shelby County plans to improve 47 miles of macadam roads.

+Cincinnati, Ohio—Contracts have been awarded for improving Boudinot Ave. to JOHN NICHOLSON at $10,035; Duck Creek Rd. to R. E. CASH at $16,376.

Fremont, Ohio—At a recent election the citizens of Ballville Township voted in favor of issuing $50,000 in bonds for road improvements.

+Middletown, Ohio—The contract for macadamizing the Columbia Bridge Rd. has been awarded to GARVER & WUTZ at $11,000.

Youngstown, Ohio—Bids will be received by H. N. Whitebeck, Clk, of the Bd. of Trustees of Brookfield Township, until Nov. 14, for the improvement of the Sharon Rd.

+Shelbyville, Ind.—(Official)—The contract for constructing the Shadley Rd., Sugar Creek Township, has been awarded to WILLIAM H. OGDEN at $11,768. Noted Oct. 15.

+Kaukauna, Wis.—A contract for constructing one mile of macadam roadway has been awarded to LUTHER LINDAUER.

Burlington, Iowa—Plans are being prepared by H. M. McIntosh, City Engr., for paving Summer St. Robert Kroppach is City Clk.

Muscatine, Iowa—C. H. Young, City Engr., has been ordered to prepare plans for paving the river front from Iowa Ave. to Chestnut St. H. P. Caple is City Clk.

+Eveleth, Minn.—The contract for paving Roosevelt Ave. between Fayal and Pierce St. has been awarded to LAWRENCE McCANN.

Farmington, Minn.—Bids have been received for improving the Nininger Hill Rd. as follows: H. M. Kingston and John Driscoll, $5908; John E. Blomstrand, $4382; Leroy R. Bowe, $5550; M. J. Ryan, $8750; Beecher Improvement Co., $6300.

+St. Paul, Minn.—The contract for repairing Robert St. has been awarded to the CENTRAL CONSTRUCTION CO., 500 Capital Bank Bldg., at $17,748.

Kansas City, Kan.—The Commissioners of Wyandotte County voted Oct. 26, in favor of macadamizing a section of Leavenworth Rd. The estimated cost is $8250.

+Wichita, Kan.—The contract for improving South Volutsia Ave. has been awarded to H. L. MILES.

Great Falls, Mont.—The County Commissioners of Cascade and Meagher Counties, with the coöperation of the Government, will reconstruct a road between Neihart and White Sulphur Springs, uniting the two national parks, Glacier and Yellowstone. The road will be about eight miles long and will cost approximately $10,000.

+Livingston, Mont.—A contract for constructing concrete sidewalks in District No. 60 has been awarded to RIFLER & SWORDER.

Roundup, Mont.—At the general election the citizens of Musselshell County voted in favor of issuing $200,000 in bonds for road improvements.

Caldwell, Tex.—At a recent election the citizens voted in favor of issuing $12,000 in bonds for improving streets.

+Lewiston, Idaho—A contract for paving seven miles of highway in the Lewiston Orchards Highway District has been awarded to the WARREN CONSTRUCTION CO., Spokane, Wash., at $92,000.

+Olympia, Wash.—The contract for surfacing about three miles of the Pacific Highway between Woodland and La Center has been awarded to HAYDEN BROS. & BIDWELL, Portland, Ore., at $6960. Noted Oct. 15.

+Seattle, Wash.—The contract for constructing three miles of the Medina-Bellevue Rd. has been awarded to W. MARTELL, Seattle at $13,825. Noted Oct. 8.

Portland, Ore.—Plans have been prepared for the improvement of East Grant St. from Grand Ave. to East 11th St. The approximate cost is $14,258.

Los Angeles, Calif.—(Official)—Bids will be received by H. J. Lelande, Clk. Bd. of Supervisors, until 2 p.m., Nov. 16, for improving several streets in Road Improvement District No. 31.

Monrovia, Calif.—The City Council plans an expenditure of $15,000 for street improvements.

+Pasadena, Calif.—The contract for improving Stevenson Ave. from East Orange, Grove Ave. to Washington St. has been awarded to T. C. BREITENSTEIN, 405 Douglas St., Pasadena, at $9060. Other bids were: H. E. Cox, $10,170; Charles A. Baldwin, $9171. Noted Oct. 22.

Porterville, Calif.—According to press reports bids will be received until Dec. 7, for grading and paving about 50,000 sq.yd. with 1½-in. asphalt concrete pavement on a 5-in. concrete base. I. H. Alhouse is City Engr.

+Sacramento, Calif.—(Official)—The State Highway Commission has awarded a contract for constructing 5.6 miles of the Bakersfield-Glenville Rd., Kern County, to F. H. JAMESON, at $9485. Other bids were: Shattuck & Nimmo, $10,764; West & Cochran, $11,796; M. T. Kean, $12,260; Castro & Blaisdell, $12,468; J. H. McMillan, $12,992; T. L. Cummins, $13,735; Weringer, Stevens & Hitchock, $13,794; Geo. S. Benson & Sons, $14,057; J. H. Falconer, $18,386; Berry, Mackie & Co., $26,392.

+Santa Rosa, Calif.—The City Trustees have awarded a contract for street paving to the CITY STREET IMPROVEMENT CO., San Francisco, Calif., at 15½c. per sq.ft.

+Sausalito, Calif.—The City Council has awarded a contract for grading several streets to EATON & SMITH, San Francisco, Calif., at $21,102.

INDUSTRIAL WORKS

Auburn, Maine—The Androscoggin Co., Washington St., will erect a foundry to cost $50,000. George W. McFadden is Pres.

+Lawrence, Mass.—The contract for the construction of the factory for the Lawrence Mattress Co. has been awarded to ANTONIO CHAMPY, 20 Fitz St. It will be two stories, 52x97 ft., estimated to cost $12,000.

+Salem, Mass.—(Official)—The general contract for the construction of the plant for the Naumkeag Steam Cotton Co. has been awarded to the TURNER CONSTRUCTION CO., 11 Broadway, New York. Noted July 30.

Bridgeport, Conn.—The Remington Arms Union Metallic Cartridge Co. is having plans prepared for a five-story factory at Bridgeport.

Buffalo, N. Y.—The Ford Motor Co., Detroit, Mich., has purchased a site adjoining the New York Central Belt Line tracks, at Buffalo, upon which will be erected a four-story factory and warehouse. The estimated cost is $500,000.

Buffalo, N. Y.—The Empire Concrete Shingle Co., recently incorporated, will erect a plant for the manufacture of concrete shingles. The estimated cost is $100,000. W. F. Lipp, 284 Genesee St., is the Pres.

The Buffalo Lounge Co. is having plans prepared for an addition to its plant at Exchange St. and the Erie R.R.

The Jewell Steel & Malleable Casting Co. is preparing plans for a core room building 60x140 ft. in connection with its plant at Hertel Ave.

The Buffalo Meter Co. will erect a four-story and basement factory at Main St. and the Erie R.R. George K. Bassett, 290 The Terrace, is Pres.

Hudson, N. Y.—The Union Bag & Paper Co. is having plans prepared for the construction of a machine paper mill.

Lockport, N. Y.—The Harrison Mfg. Co., manufacturer of radiators, will enlarge its plant.

New York, N. Y.—(Borough of Bronx)—The Fletcher Thompson Co., Inc., 30 Church St., New York, has prepared plans for a plant at Morris Heights for the New York Yacht, Launch & Engine Co.

New York, N. Y.—(Borough of Brooklyn)—L. S. Beardsley, Arch., 38 West 32d St., is preparing plans for a two-story reinforced-concrete bakery at Rutledge St., for Dugan Bros., 287 Broadway, Brooklyn.

+New York, N. Y.—(Borough of Brooklyn)—The general contract for the three-story brick factory at 330 Melrose St., for Samuel Graber, has been awarded to ANDREW ADAMS & CO., 254 Melrose St. The estimated cost is $15,000.

+The general contract for the construction of the two-story brick and steel factory at 222 44th St., for the Fred H. Levey Co., has been awarded to F. J. ASHFIELD, 350 Fulton St.

+(Borough of Manhattan)—The general contract for the construction of the 11-story brewery and stock house at 210 East 92d St., for Jacob Ruppert Brewing Co., has beeen awarded to MURPHY BROS., Madison Ave. and 42d St. Noted Oct. 22.

+(Borough of Richmond)—The general contract for the construction of the warehouse for the American Dock Co. has been awarded to the R. & W. CONCRETE CO., 207 Market St., Newark, N. J. The estimated cost is $161,000. Noted Oct. 29.

Oneonta, N. Y.—The Sheffield Farms Slawson Decker Co. will erect a creamery at Oneonta. W. H. Sheffield, Hobart, N. Y., is Pres.

Rochester, N. Y.—Anthony J. Weetzer is having plans prepared by H. B. Nurse, Arch., Cutler Bldg., for a two-story, 70x90-ft. wagon factory and garage.

Eddystone, Penn.—The Tindel Morris Co. will expend about $100,000 for enlargements and improvements to its plant.

New Castle, Del.—The Bethlehem Steel Co., South Bethlehem, Penn., will erect a plant at New Castle for the pressing of papier mache cases.

+Americus, Ga.—The contract for the construction of the warehouse on Spring St. has been awarded to F. W. GRIFFEN, Americus, Ga.

+Cleveland, Ohio—The contract for the construction of a two-story and basement 30x80-ft. factory for the Tabor Ice Cream Co., Quimby Bldg., has been awarded to METTLER-GLOYD CO., 713 Prospect Ave., Cleveland. Estimated cost, $40,000. Noted Oct. 22.

Fort Wayne, Ind.—Plans have been prepared for the construction of a 40x141-ft. factory, on Lewis and Calhoun St. for the Cooney Bayer Cigar Co. Estimated cost, $40,000.

Chicago, Ill.—The Chicago Compressed Gas Co., recently organized, have purchased a site at 58th Ave. and 66th St. on which will be constructed a brick and concrete 100x200-ft., factory. Harry G. Austin is Pres. and Herbert P. Harding is Secy. of the company.

+Peoria, Ill.—The contract for the construction of a factory at Washington and Vons St. for the W. H. Carr Medicine Co., has been awarded to V. JOBST & SONS. Estimated cost, $40,000.

Grand Rapids, Mich.—The Inter-State Oil Co., La Crosse, contemplates constructing a warehouse, estimated to cost, $10,000.

Milwaukee, Wis.—Contracts for the construction of the warehouse at Fourth and Fowler St., for B. J. Johnson Soap Co. have been awarded to the NORTHERN CONSTRUCTION CO. general contract; WORDEN-ALLEN CO., steel. Estimated cost, $100,000.

Waukesha, Wis.—Plans are being prepared for the Waukesha Spring Water Ice Co. for the construction of an ice plant, at Waukesha.

Denton, Mont.—Plans have been prepared and a site secured for the construction of a large flour mill, for Albert Johnson.

Ekalaka, Mont.—Wennigan & Fisher have purchased a site for the construction of a flour mill, elevator and feed grinding mill, at Ekalaka.

Geraldine, Mont.—Plans are being prepared by W. H. Waidman for the construction of a flour and feed mill to cost $25,000.

Seattle, Wash.—The Cross-Bodine Lumber Co. recently incorporated with a capital of $50,000, contemplates constructing a lumber mill. R. M. Cross and A. L. Hill are interested.

Seattle, Wash.—Bids will soon be received for the construction of a plant at Occidental and First St. for the Cumberland Coal Co. Estimated cost $18,000, Reitze, Storey & Duffy, Engrs., Northern Bank Bldg., are preparing the plans.

Spokane, Wash.—Bids will soon be received for the construction of a packing plant for Mitchem Bros., to cost, $25,000. Noted July 23.

Carlton, Ore.—The Carlton Fir Lumber Co., contemplates constructing a mill to replace the one recently destroyed by fire. Estimated cost, $100,000. Charles E. Lodd is Pres.

Klamath Falls, Ore.—The Lamm Lumber Co., recently incorporated, contemplates constructing sawmill on Upper Klamath Lake. W. F. Lamow, F. N. De Neffe and J. L. Conley, Portland, are interested.

The Pelican Bay Lumber Co. contemplates constructing a sawmill, estimated to cost, $95,000. F. Hill Hunter, Spokane, Wash., is the Engr.

Fresno, Calif.—The People's Ice Co., contemplates constructing an ice-plant to cost $40,000. J. H. Wooden and F. W. Gregory are interested.

+Oakland, Calif.—The contract for the construction of a one-story packing plant on Second St. for On & Breedlove, has been awarded to B. PEARSON, 2403 Grant St., Berkeley. Estimated cost, $10,000.

Santa Rosa, Calif.—The Sebastopol Berry Growers contemplates constructing a factory and a pre-cooling plant. Estimated cost, $50,000.

Listowel, Ont.—Libbey, McNeil & Libbey, Chicago, Ill., contemplate constructing a factory, to cost $100,000.

Regina, Sask.—Plans have been prepared for the construction of a two-story, 75x125-ft. warehouse at Dewdney and McIntyre St., for Cushing Bros. Estimated cost, $10,000.

Regina, Sask.—Tudhope, Anderson & Co., contemplate constructing a two-story, 50x135-ft., warehouse, to cost $20,000.

FEDERAL GOVERNMENT WORK

Shipbuilding Cranes—Boston, Mass.—Bids were received as follows, Nov. 9, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishing and installing four shipbuilding cranes at the Boston Navy Yard under item (1), and five at the Philadelphia Navy Yard, under item (2): McMyler-Interstate Co., Bedford, Ohio, item (1), design A, $38,600; B, $38,720; C, $38,400; D, $38,520; item (2), design A, $47,700; B, $47,850; C, $47,450; D, $47,600; Maine Electric Co., Portland, Ore., (1) $51,336, (2) $64,170; Cleveland Crane & Engineering Co., Wickliffe, Ohio, (1) $57,260, (2) $71,425; Terry & Tench Co., New York, N. Y., (1) $43,297, (2) $52,530; Orton & Steinbrenner Co., Chicago, Ill., (1), design A, $41,820; AA, $39,886; B, $40,326; BA, $38,011; C, $30,879; CA, $31,119; (2), design A, $51,836; AA, $49,281; B, $49,939; BA, $47,045; C, $38,252; CA, $38,569; American Hoist & Derrick Co., St. Paul, Minn., (1) $38,304; alt. A, $38,104; B, $38,504; C, $41,844; D, add $100 to each crane; (2) $47,241; alt. A, $46,991; B, $47,491; C, $51,666; D, add $100 to each crane; Wellman-Seaver-Morgan Co., Cleveland, Ohio, (1) $56,500; (2) $70,000; Whiting Foundry & Equipment Co., Harvey, Ill., (1) $57,185, (2) $70,635; Niles-Bement-Pond Co., 111 Broadway, New York, N. Y., (1) $79,600, (2) $97,900; Morgan Engineering Co., Alliance, Ohio, (1) $48,750, (2) $60,750. Noted Nov. 5.

Post Office—Danbury, Conn.—Bids were received as follows, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office at Danbury, (a) limestone; (b) sandstone: George T. Kelly, Yonkers, N. Y., (a) $67,888; William Werner, New York, N. Y. (Borough of Brooklyn), $67,377; Kelly & Kelly, Inc., Long Island City, N. Y., $65,700; M. Yeager & Co., Danville, Ill., $71,425; William H. Fissell & Co., New York, $67,900; Walter L. Mellen, Worcester, Mass., $74,420; J. E. & A. L. Pennock, Philadelphia, Penn., $71,600; Conners Bros. Co., Lowell, Mass., $84,755; George R. Wells & Co., New York, $64,820; Westchester Engineering Co., White Plains, N. Y., $63,350; William H. Egan, New York, $71,200; A. W. King, New York, $69,866; Charles McCaul Co., Philadelphia, Penn., $58,495; Joseph Christiano, Greenwich, Conn., $115,000. Noted Sept. 24.

Post Office—Stamford, Conn.—Bids were received as follows, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office at Stamford, (a) limestone; (b) sandstone: George T. Kelly, Yonkers, N. Y., (a) $109,900. William Werner, New York, N. Y. (Borough of Brooklyn), (a) $110,750; (b) $110,750. M. Yeager & Sons, Danville, Ill., (a) $113,827; (b) $116,127. Kelly & Kelly, Inc., Long Island City, N. Y., (a) $115,000; (b) $115,000. J. E. & A. L. Pennock, Philadelphia, Penn., (a) $109,800; (b) $112,400. William H. Fissell & Co., New York, N. Y., (a) $111,300; (b) $112,400 John Lowry, Jr., New York, N. Y., (a) $110,300; (b) $112,400. George R. Wells & Co., New York, N. Y., (a) $102,186; (b) $102,686. Lewis P. Fluhrer Co., New York, N. Y., (a) $120,000; (b) $121,400. Conners Bros. Co., Lowell, Mass., (a) $111,730; (b) $112,400. King Lumber Co., Charlottesville, Va., (a) $139,900; (b) $142,000. Westchester Engineering Co., White Plains, N. Y., (a) $111,870; (b) $113,800. Astoria Realty & Construction Co., New York, N. Y., (a) $96,897; (b) $96,897. William H. Egan, New York, N. Y., $111,967; (b) $112,900. John G. Unkefer & Co., Minerva, Ohio, (a) $111,524; (b) $112,524. Oscawanna Building Co., New York, N. Y., (a) $99,700; (b) $101,200. Joseph Christiano, Greenwich, Conn., (a) $140,000; (b) $140,000. John H. Parker Co., New York, N. Y., (a) $105,916; (b) $109,916. Charles McCaul Co., Philadelphia, Penn., (a) $91,265; (b) $93,465. Noted Sept. 24.

+Lighting Fixtures, Etc.—New York, N. Y.—The contract for installing a conduit and wiring system and lighting fixtures in the U. S. Appraiser's Warehouse, New York, has been awarded to the LORD ELECTRIC CO., 105 West 40th St., New York, N. Y., at $24,458.

+Piers, Ferry Rack, Bridge, Etc.—New York, N. Y.—The contract for the construction of the dock piers, ferry rack, bridge, etc., at the U. S. barge office, New York, has been awarded to the PHOENIX CONSTRUCTION CO., 41 Park Row, New York. Noted Sept. 24 and Oct. 22.

Lumber—Philadelphia, Penn.—Bids will be received by Lieut. Col. Cyrus S. Radford, Assist. Quartermaster, 1100 South Broad St., until 11 a.m., Nov. 17, for furnishing 100,000 ft. No. 3 barn grade white pine or white cedar and 20,000 ft. No. 3 barn grade white pine.

Shipbuilding Cranes—Philadelphia, Penn.—See item under Boston, Mass. Noted Nov. 5.

Building—Washington, D. C.—Bids were received as follows, by the Commissioners of the District of Columbia, for the repair and reconstruction of Western High School Building No. 117, at 35th and R St., Washington: Andrew Murray, Washington, $60,990; Wells Bros. Co., New York, $67,000; James L. Parsons, Washington, $59,277; George A. Fuller Construction Co., New York, $52,750; Melton Construction Co., Inc., Washington, $50,995; Irwin & Leighton, Philadelphia, Penn., $59,800; Skinker & Garrett, $56,928; Conners Bros. Co., Lowell, Mass., $63,700; Boyle-Robertson Construction Co., Washington, $55,335; P. F. Gormley Co., $57,577; George E. Wyne, $54,500; Singer Pence Co., $57,021; Arthur Cowsill, $51,000; W. E. Mooney, $63,920; Richardson & Burgess, Inc., $48,877; Harry H. Wehmeyer, Philadelphia, Penn., $66,840.

+Laundry Machinery—Washington, D. C.—The contract for furnishing and installing laundry machinery in the Government Hospital for the Insane, Washington, D. C., has been awarded to the AMERICAN LAUNDRY MACHINERY CO., Washington, D. C., at $5370. Noted Oct. 1.

Hospitals—Washington, D. C.—The following bids were received by the Commissioner of Indian Affairs, Interior Dept., Washington, D. C., for constructing frame hospitals at the Indian agencies at Pima and San Xavier, Ariz.; Carson, Nev.; Mescalero, N. M.; Turtle Mountain, N. D., and Blackfoot, Mont.: F. S. Berger, St. Paul, Minn., $17,600; Turtle Mountain,

N. D. Clock, Shea & Gernoski, Reno, Nev., $13,480; Carson, Nev. Moulder & Harnish, Los Angeles, Calif., $19,000; San Xavier, Ariz. Clinton Campbell, Phoenix, Ariz., $14,985; Pima, Ariz. Charles H. Odam, Phoenix, Ariz., $14,900; Pima, Ariz. C. G. Sellman Construction Co., Carson, Nev. $13,400; Carson, Nev. W. D. Lovell, Minneapolis, Minn., $86,800; for all six buildings. William Bruce, San Francisco, Calif., $18,375; Carson, Nev. Mayfield & Shaw, El Paso, Tex., $20,453, Pima; $21,182, San Xavier; $21,867, Mescalero, N. M. J. O. Shulind, Alexander, Minn., $14,889, Turtle Mountain, N. D.; $14,249, Blackfoot, Mont. Noted Oct. 15.

Building—Washington, D. C.—Bids will be received by H. R. Stanford, Chief, Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Nov. 28, for constructing a five-story warehouse, 100x250 ft., with an annex, 50x250 ft.

Lintels—Washington, D. C.—The Commissioners of the District have rejected all bids received Oct. 25 for furnishing c.-i. lintels for the Bryan School Bldg, Washington. Noted Oct. 1.

Excavating and Building—Washington, D. C.—Bids will be received at the office of the Secretary of the Board of Commissioners, District Bldg., until 2 p.m., Nov. 19, for excavation, foundations and substructure for High School No. 174, First St. N. W., between N and O St. Oliver P. Newman is one of the Comrs.

✚Life Saving Station—Lillington, N. C.—The contract for the construction of a life-saving station at Cape Fear, N. C., has been awarded to A. J. ROBBINS, Southport, N. C., at $8671. Noted Oct. 8 and Oct. 22.

★Post Office—Thomasville, Ga.—(Official)—Bids will be received by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 15, for constructing a post office at Thomasville. The building will be of brick, stone and terra cotta, two stories and basement.

Post Office—Canton, Miss.—Bids will be received until 3 p.m., Dec. 22, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for constructing a post office at Canton. The building will be two stories and basement, of stone.

✚Post Office—Jackson, Ky.—The contract for constructing the U. S. post office at Jackson has been awarded to the J. S. ROGERS CO., Moorestown, N. J.

Post Office—Middlesboro, Ky.—Bids will be received by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 23, for constructing a post office at Middlesboro. The building will be two stories and basement, of stone.

★Mail Handling Apparatus—Detroit, Mich.—Bids will be received by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 12, for installing a mail handling apparatus in the post office at Detroit.

Post Office—Ishpeming, Mich.—Bids will be received by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 19, for constructing a post office at Ishpeming. The building will be two stories and basement.

Life Saving Station—Mackinac Island, Mich.—Bids will be received by S. I. Kimball, Gen. Superv., U. S. Life Saving Service, Treasury Dept., Washington, D. C., until 2 p.m., Dec. 2, for constructing a life saving station and launchway at Mackinac Island.

Building—Manistique, Mich.—Bids will be received, until 2 p.m., Dec. 1, by the Lighthouse Inspector, Milwaukee, Wis., for constructing Keepers' Quarters (duplex apartments) at the Manistique Light Station.

Post Office—Collinsville, Ill.—Bids were received as follows, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office at Collinsville, (a) limestone, (b) sandstone: M. L. Holliday, Greensboro, N. C., (a) $56,768, (b) $57,468; Wharton Building & Supply Co., St. Louis, Mo., (a) $58,400, (b) $59,700; Clarke Construction Co., Danville, Ill., (a) $57,846, (b) $59,125; Hiram Lloyd Building & Construction Co., St. Louis, Mo., (a) $58,974, (b) $60,974; J. H. Wiese, Omaha, Neb., (a) $57,880; William O'Neil & Son Co., Faribault, Minn., (a) $54,143; King Lumber Co., Charlottesville, Va., (a) $59,860, (b) $60,460; James Devault, Canton, Ohio, (a) $55,581, (b) $56,581; Houde Construction Co., Bourbonnais, Ill., (a) $60,668, (b) $61,068; George W. Stiles Construction Co., Chicago, Ill., (a) $54,450. Noted Sept. 24.

Post Office—Princeton, Ill.—Bids were received as follows, by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office at Princeton, (a) limestone, (b) sandstone: W. G. Carter Co., Chicago, Ill., (a) $54,983, (b) $56,783; James Devault & Son, Canton, Ohio, (a) $55,400, (b) $56,400; William O'Neil & Son Co., Faribault, Minn., (a) $55,703; George W. Stiles Construction Co., Chicago, Ill., (a) $55,775; McManis & Tarnowski, St. Paul, Minn., (a) $55,850; R. S. Moore, Lafayette, Ind., (a) $56,134, (b) $58,134; Thomas W. Cissell, Wooster, Ohio, (a) $56,791, (b) $59,791; Hiram Lloyd Building & Construction Co., St. Louis, Mo., (a) $57,443, (b) $59,943; M. L. Holliday, Greensboro, N. C., (a) $57,978, (b) $58,828; George A. Shaul Construction Co., Seneca, Kan., (a) $59,413; Clarke Construction Co., Danville, Ill., (a) $59,786, (b) $61,000; Houde Construction Co., Bourbonnais, Ill., (a) $59,874, (b) $60,274. Noted Sept. 24.

Conduit and Cable System—Minneapolis, Minn.—The following bids were received by the Superv. Arch., Treasury Dept., Washington, D. C., for constructing an underground conduit and cable system for lighting, power, and telephone service between the present U. S. court-house and post office and the new post office building, Minneapolis: Strand Electric Co., Philadelphia, Penn., $5521; Johnson & Drake, Minneapolis, $6000; W. O. Hartig Electric Co., Minneapolis, $5876; Carroll Electric Co., Washington, D. C., $4985. Noted Oct. 22.

Building—Fort Riley, Kan.—Bids will be received by the Constructing Quartermaster, Fort Riley, until 11 a.m., Nov. 30, for constructing a stone stable.

Canal Work—Dodson, Mont.—The following bids were received for the reconstruction of the Dodson South Canal, at Dodson Bridge: James O'Connor, 231 Park Ave., Council Bluffs, Iowa, (a) Schedule 1, $33,895; Security Bridge Co., Minneapolis, Minn., (b) Schedule 2, $3060; U. S. Bridge Co., National Bank Bldg., Great Falls, Mont., (b) $3770; Charles Wilhite & Co Malta, Mont., (a) $50,370. Noted Sept. 24.

Earthwork—Elsberry, Mo.—Bids will be received, until 1 a.m., Nov. 23, by Maj. Clarke S. Smith, Mississippi River Comn. International Life Bldg., St. Louis, Mo., for constructing about 225,000 cu.yd. of earthwork in the Elsberry District.

✚Earthwork—Grand Valley, Colo.—The contract for the earthwork in connection with the Grand Valley project has been awarded to THORN & WHITING, Springville, Utah, at $9180.

Ward Pavilions—Mare Island (Vallejo post office), Calif.—The following bids were received for constructing five one-story ward pavilions at the naval hospital reservation: R. S. K. MacMillen, San Francisco, Calif., $24,615; Gutleben Bros., San Francisco, Calif., $23,300; Hansborough-Johnston Co., San Francisco, $28,253; Thompson & Walker, San Francisco, Calif., $24,594. W. N. Concannon Co., San Francisco, Calif., using Johns-Manville board, $25,619; using Compo board, $26,240; Burnham Plumbing Co., San Francisco, Calif., $25,797; Henry C. Warwick, San Francisco, Calif., $23,405; D. L. Bruce, San Francisco, Calif., $25,495; M. Sheehey & Bros., San Francisco, Calif., $25,232. Noted Oct. 8.

MISCELLANEOUS

Fender Pier—Boston, Mass.—Bids will be received by the Public Works Department, until Nov. 13, for the construction of a fender pier at Chelsea Bridge, north. L. K. Rourke is Comr.

Quay Wall—Pawtucket, R. I.—The State Harbor Commission has rejected all bids for the construction of a quay wall at Pawtucket. New bids will be received shortly under a changed form of contract and specifications. S. M. Conant is Chmn. of the Comn. Noted Oct. 22.

✚Barge Canal Work—Albany, N. Y.—Duncan W. Peck, State Supt. Pub. Wks., has awarded Terminal Contract No. 35 to JOSEPH P. CASEY, Bascom, N. Y., at $9671. Contract No. 14-B has been awarded to BROWN & LOWE, Schenectady, at $71,021. List of bidders noted Nov. 5.

✚Barge Canal Work—Albany, N. Y.—Duncan W. Peck, State Supt., Pub. Wks., has awarded the contract to LUPFER & REMICK, at $188,031, for the erection and equipment of power plants, electrical equipment and machinery for operating locks 1, 2, 3 and 4, Cayuga and Seneca Canal. Noted Oct. 29.

★Finishing Hardware—Farmingdale, N. Y.—(Official)—Bids will be received by A. A. Johnson, Acting Secy. Bd. Trustees, Room 43, 16 Court St., Brooklyn, N. Y., until 10 a.m., Nov. 12, for furnishing the finishing hardware for the director's residence, horticultural building and agronomy building at the new State School of Agriculture, near Farmingdale, Long Island, N. Y. Specifications are on file at the Department of Architecture, Albany, and at the New York office, Room 1224 Woolworth Bldg.

✚Mausoleum—New York, N. Y.—(Borough of Queens)—(Official)—The contract for the construction of the Raegener Mauseoleum in Lutheran Cemetery has been awarded to McDERMOTT & HANIGAN, INC., 103 Park Ave., New York, at $15,000. Nortman & Braun are the Archs.

Motor Fire Apparatus—New York, N. Y.—(Borough of Manhattan)—(Official)—The only bid received on Nov. 4 by Commissioner Robert Adamson, for furnishing the fire department with 18 gasoline propelled tractors, was that of the Front Drive Motor Co., Willow Ave., Hoboken, N. J., at $64,800. Noted Oct. 29.

Materials For Park Improvement—Jersey City, N. J.—Bids will be received by the Hudson County Park Commission, No. 1 Exchange Pl., until 2 p.m., Nov. 17, for furnishing materials as follows: 936 lin.ft. chain link woven steel fencing; one double gate, 12 ft. opening; 1060 lin.ft. chain link woven steel tennis fencing; five single gates; 16 galvanized steel tubing tennis net posts; five chain link woven baseball backstops; 900 cu.yd. coarse cinders; 1100 cu.yd. ¾-in. limestone screenings; 50 cu.yd. ¼-in. Cow Bay grit; 220 cu.yd. ¼-in. limestone screenings.

Motor Fire Apparatus—Orange, N. J.—The City Commission will receive bids, until Nov. 17, for furnishing motor fire apparatus. All bids formerly received have been rejected. William F. Kearney is Dir. Pub. Safety.

✚Creek Improvement—Lebanon, Penn.—The contract for the lowering of the bed of Quittapa Creek is reported awarded to JAMES H. FREY, Lebanon, at $10,000. T. P. Crowell is City Engr.

Piers, Bulkheads, Fire Apparatus and Stations—Philadelphia, Penn.—The citizens voted a loan of $11,300,000 at the November election for municipal improvements. Of this sum $1,100,000 will be expended as follows: For completing municipal piers at Catherine and Christian St., and for new municipal pier near McKean St., $800,000; bulkheading the banks of the Schuylkill, $75,000; repairs and improvements to city piers, $25,000; for new police and fire stations, $100,000; for fire apparatus $100,000.

★Creek Straightening—York, Penn.—(Official)—Bids will be received by the Superintendent of Streets and Public Improvements, until Nov. 20, for excavating a channel for Codorus Creek, about 20,000 cu.yd. of excavation. George A. Warner is City Engr.

✚Dredging—Baltimore, Md.—The State Roads Commission has awarded the contract for dredging the channel in the Middle Branch, Patapsco River, to the MARYLAND DREDGING CO., at $13,438.

Canal—Cambridge, Md.—At a recent mass meeting of the citizens of Dorchester County a proposition was discussed regarding the construction of a canal from Cambridge to the Chesapeake Bay. It was proposed that the county issue $60,000 in bonds for the work.

Steel and Wood Furnishings—Tampa, Fla.—Bids will be received by the Board of Public Works until Dec. 1, for steel and wood furnishings for the new city hall. About $20,000 will be expended.

Motor Fire Apparatus—McComb, Miss.—The city will receive bids until Nov. 17, for furnishing the fire department with a motor fire truck. O. B. Quin is Mayor.

Stadium—Akron, Ohio—Plans are being prepared for a stadium to be erected on Buchtel Field for Akron University. Estimated cost about $50,000.

Subway, Ore Docks and Freight Terminal—Barberton, Ohio—O. C. Barber, Barberton, Ohio, match manufacturer, has had plans prepared for the development of 40 acres of land on the lake front, between East 55th and East 67th St. The plans include the construction of iron ore docks, a four-track subway under East 55th St. and freight terminals. The estimated cost of the project is $9,000,000. The Osborn Engineering Co., 740 Engineers Bldg., Cleveland, has prepared the plans.

Comfort Station—Lorain, Ohio—The city plans to construct a public comfort station in Washington Park. C. M. Osbourne is City Engr.

Docks and Yard Improvements—Toledo, Ohio—The Cincinnati, Hamilton & Dayton R.R. is having plans prepared for coal docks, modern car dumping facilities, coal-hoisting machinery and additional yards at Toledo. The estimated cost is $500,000. Noted Oct. 15.

Motor Fire Apparatus—Indianapolis, Ind.—The City Council has authorized a bond issue of $80,000, of which $52,000 will be used for the purchase of motor fire apparatus.

Drainage—Urbana, Ill.—Bids will be received by the County Clerk until 11 a.m., Nov. 14, for drainage work in the Little Vermilion special drainage district. The work includes furnishing and laying 7410 ft. of 8- to 20-in. tile. Plans on file at the office of the County Clerk, Urbana.

✚Breakwater—Racine, Wis.—The contract for the construction of a lake shore breakwater, including 831 lin.ft. of double pile protection and 100 lin.ft. of single pile protection, has been awarded to P. W. GALLOWAY, Racine, at $21,750. P. H. Connoly is City Engr. Noted Oct. 29.

Park Extension—Des Moines, Iowa—It is reported that the state plans an expenditure of $2,000,000 for the extension of Capitol Park.

Ditch—Logan, Iowa—The County Board has rejected all bids received for the construction of the Timber Creek lateral of the Boyer River Ditch. The lowest bid was 21c. per cu.yd.

Ditches—Bemidji, Minn.—Bids will be received until Nov. 27, by J. L. George, County Audr., Beltrami County, for constructing the following ditches: Judicial ditch 22, estimated cost $20,510; judicial ditch 23, estimated cost $59,949; judicial ditch 24, estimated cost $41,683. E. J. Bourgeois is the Engr.

✚Dike—Kansas City, Kan.—The Kaw Valley Drainage Board has awarded a contract to the G. F. MUNDAL CONSTRUCTION CO., at $81,700 for raising the Kaw River dike 3½ ft. and widening it 20 ft. for a distance of 2000 ft.

Pier—Austin, Tex.—The lowest bid received for the construction of a reinforced concrete pier and floating wharf at the dam, was that of A. A. Mundt, at $13,745. S. S. Posey is City Engr. Noted Oct. 8.

Levee—Fort Worth, Tex.—F. J. Von Zuben, City Engineer, has prepared plans for the construction of a levee to protect the water-works plant from the overflow of the Clear Fork River. The plans and specifications were recently submitted to the City Council for approval.

Park and Harbor Improvement Bonds—Houston, Tex.—(Official)—The bond issue of $3,000,000 to provide adequate harbor facilities was voted by a large majority on Oct. 28. An issue of $250,000 for park improvements was also voted. E. E. Sands, City Engineer, will be in charge of the park work, while J. F. Coleman, New Orleans, has been retained by the Harbor Board as Consult. Engr.

Wharf and Warehouse—Houston, Tex.—The following bids were received, Oct. 28, by the City Council, for the construction of the first wharf and warehouse on the Turning Basin: Horton & Horton, $218,840; James Stewart & Co., $242,242; American Construction Co., $247,000; H. C. Gass, $274,900; Perry & Bonner, $284,500; Central Contracting Co., $314,700. E. E. Sands is City Engr. Noted Sept. 17, Oct. 8.

Breakwater and Filling—Albuquerque, N. M.—(Official)—Pitt Ross, County Surv., will receive bids until Nov. 14 for the construction of a breakwater, 192 ft. long, on the west bank of the river above the Alameda Bridge.

✚Fire Protection System—Seattle, Wash.—(Official)—The Port of Seattle Commission has awarded the contract for the installation of a fire protective system in the Smith's Cove warehouses to the RAUTMAN PLUMBING & HEATING CO., at $15,379. Other bids were: Ward & Sherer, $17,027; Norton & Smith, $17,621; Rockwood Sprinkler Co., $17,294; P. R. Ellis, $18,140; Automatic Sprinkler Co. of America, $18,354; Eckhart Plumbing & Heating Co., $19,984; P. J. Lavan, $21,300; J. R. West is Act. Ch. Engr. Noted Oct. 29.

Tunnel—Seattle, Wash.—The City Council has passed a resolution providing for the construction of a 560-ft. tunnel under Dearborn St., from 11th Ave. S. to 12th Ave. S. A. H. Dimock, City Engr., will prepare the plans.

Vessel—Seattle, Wash.—The following bids were received by the Eagle Harbor Transportation Co. for the construction of a 130-ft. passenger steamer, having a speed of 15 knots per hour: Martinolich Co., $14,500, delivery in six months; Joseph Supple, $16,300, delivery in four months; J. F. Duthie & Co., $18,900, delivery in four months; Hall Bros., $21,500, delivery in five months. L. H. Coolidge, Naval Arch., prepared the plans.

✚Steel Doors—San Francisco, Calif.—The State Board of Harbor Commissioners has awarded the contract for furnishing and installing steel rolling doors on piers 16, 18 and 37 to the KINNEAR MFG. CO., Columbus, Ohio, at $28,509. Noted Oct. 8.

✚Tunnel—San Francisco, Calif.—The Board of Public Works has awarded the contract for the construction of the Twin Peaks Tunnel to R. C. STORRIE & CO., San Francisco, at $3,372,000. M. M. O'Shaughnessy is City Engr. List of bidders noted Nov. 5.

✚Pier—Long Beach, Calif.—The contract for the construction of the Belmont Heights, Devil's Gate, pier has been awarded to TROUNCE & STOECHER, Los Angeles, at $46,000. Noted June 18, Nov. 5.

Conservation-Protection Works—San Bernardino, Calif.—(Official)—F. C. Finkle, C. E., Hellman Bldg., Los Angeles, reports that he has completed plans and specifications for the conservation-protection works along Lytle Creek, San Bernardino.

Dock—San Pedro, Calif.—The Crescent Wharf & Warehouse Co., 410 Security Bldg., Los Angeles, plans to rebuild at once its wharf and warehouse, recently destroyed by fire.

Drain—Alvinston, Ont.—Bids will be received until Nov. 21, by Commissioner W. J. Bourne, for constructing the Smith-Patterson Drain. Plans and specifications on file with the Commissioner.

Fire Alarm System—Newmarket, Ont.—Bids will soon be received by P. K. Anderson, City Clerk, for the installation of a fire-alarm system for which plans are now being prepared.

BUILDINGS

✚Slocum, R. I.—Contracts for the construction of the buildings at the Rhode Island School for Feebleminded at Exeter, have been awarded as follows: General contract, H. WALES LINES CO., Meriden, Conn., at $78,851; wiring, WHITALL ELECTRIC CO., Westerly, $2170; heating, J. J. HURLEY & CO., Boston, Mass.; $10,244. Noted Oct. 8.

✚Boston, Mass.—The contract for the construction of a school at the West End has been awarded to the JOHN F. GRIFFEN CO., at $173,496. Other bids were: Whiton & Haynes, $174,900; Patrick Rich, $176,400; William Crane, $177,456; J. E. Locatelli Co., $181,889; Norcross Bros. Co., $183,500; Joseph Slotnick, $184,000; McGahey & O'Conner, $186,000; McDonald & Kivell, $186,573; Manus J. Fish & Son, $201,425. Joseph Lomasney, 120 Boylston St., is Chn. of the School House Comn.

Harold F. Kellogg, Arch., 141 Milk St., is preparing plans for the two-story brick building at Dudley and Kenilworth St., for the Roxbury Boys' Institute. The estimated cost is $130,000.

✚The contract for the construction of the seven-story brick building at 1126 Boylston St., for T. J. Rearson, has been awarded to the BOYLSTON CONSTRUCTION CO. The estimated cost is $125,000.

Mattapan (Boston post office), **Mass.**—Plans are being prepared by Harrison H. Atwood, Arch., 61 Allen St., for the construction of a police station at Mattapan. Richard A. Lynch, City Hall Annex, is Supt. of Pub. Bldgs.

✚Providence, R. I.—The contract for the construction of a three-story office building on Westminster St., for Julius Palmer, has been awarded to CHARLES B. McGUIRE CO.

Plans are being prepared by Frank Miles Day & Son, Archs., Philadelphia, Penn., for an addition to the Rhode Island School of Design.

New London, Conn.—Plans have been prepared by Dudley St. Clair Donnelly, for the Y. M. C. A. building to be erected at New London.

✚Norwalk, Conn.—The general contract for the construction of the theater on Wall St., for Samuel J. Kantor, has been awarded to M. J. RIORDAN, Norwalk.

Baldwin, N. Y.—Tooker & Marsh, Archs., 101 Park Ave., New York, are preparing plans for the two-story brick school for the Board of Education. The estimated cost is $40,000. J. Steel is Pres. of the Bd.

Delhi, N. Y.—Pierce & Bickford, Archs., 118 Lake St., Elmira, have prepared plans for the construction of a two-story, brick and concrete 65x100-ft. school. The estimated cost is $65,000.

★Hudson, N. Y.—The following bids were received by Miss Mary Hinckley, Pres. Bd. of Mgrs., New York State Training School for Girls, Hudson, for hospital buildings at the school: Carlin Co., Inc., New York, $61,800; Emerson Building Co., New York, $59,380; W. L. Mellen, Worcester, Mass., $60,958; Weaver Building & Supply Co., Hudson, $70,385; Feeney & Sheehan Building Co., Albany, $64,993; McCann Building Co., Albany, N. Y., $61,300; D. W. Dean, $65,857. Noted Oct. 8.

New York, N. Y.—(Borough of Brooklyn)—Plans have been filed by William E. Austin, Arch., 46 West 24th St., New York, for the construction of a three-story hospital to be erected at Winthrop St. and Albany Ave. The estimated cost is $100,000.

Syracuse, N. Y.—Plans have been completed by James A. Randall, Arch., for the construction of a three-story parochial school at Montgomery and Madison St. The estimated cost is $60,000.

Yonkers, N. Y.—Bids are being received by George H. Chamberlain, 18 South Broadway, for the construction of a six-story Y. M. C. A. building at Riverdale Ave. and Hudson St. The estimated cost is $100,000.

★Yorktown Heights, N. Y.—(Official)—Bids will be received until noon, Nov. 19, by William B. Osgood, Pres., Bd. of Mgrs., New York State Training School for Boys, 2 West 45th St., New York, for construction, heating, plumbing, and electric work for seven cottages, at the New York State Training School for Boys. Lewis F. Pilcher, Capitol, Albany, N. Y., is State Arch. For further information see advertisement under "Contracts To Be Let."

✚Flemington, N. J.—The Board of Education has awarded the contract for a high school at Flemington to C. E. PRESTON, Monticello, N. Y., at $44,170. Noted Oct. 29.

✚Johnsonburg, N. J.—The contract for the construction of a school in the Franklin district has been awarded to ALFRED DENEE by the Frelinghuysen Township Board of Education.

Trenton, N. J.—The Board of Education is planning the erection of a high school in the North Trenton section, to cost about $40,000.

Easton, Penn.—Bids are being received by Carrere & Hastings, Archs., 225 Fifth Ave., New York, N. Y., for constructing a one-story, 96x112-ft. stone chapel for Lafayette College. The estimated cost is $100,000.

✚New Brighton, Penn.—The contract for the construction of the Y. M. C. A. building at Third Ave. and Eighth St. has been awarded to the R. D. McDANEL CO., New Brighton, Penn.

Waynesboro, Penn.—Bids will be received, until Dec. 1, by Shattuck & Hussey, Archs., 19 S. La Salle St., Chicago, for the construction of the Y. M. C. A. building at Waynesboro. The estimated cost is $75,000. Noted Sept. 17.

★**Wilmington, Del.**—(Official)—Bids will be received until 11 a.m., Dec. 1, by the New Castle County Building Commission and the Wilmington Building Commission, Church Bldg., Wilmington, for the interior marble, interior cut stone, bronze work, miscellaneous and ornamental iron, hollow metal doors, painting and finishing, finished hardware, brick paving, sidewalks, revolving doors, to be used in the construction of the County Building for New Castle County, and of the Municipal Building for Wilmington. Thomas F. Gormley is Secy. of the New Castle County Bldg. Comn. and of the Wilmington Bldg. Comn. For details see advertisement under "Contracts To Be Let." Noted Oct. 8.

✚**Hagerstown, Md.**—The contract for rebuilding the Baldwin Hotel has been awarded to GEORGE B. McWOLF, Frederick, Md. The estimated cost is $75,000.

Charleston, W. Va.—Bids will be received, until Nov. 24, by A. G. Higginbotham, Chn. Bldg. Com., for the construction of a school at Charleston. The estimated cost is $150,000.

Beaufort, N. C.—Bids will be received, until Nov. 18, by Henry E. Bonitz, Arch., Wilmington, N. C., for the construction of a school at Beaufort.

Atlanta, Ga.—Plans have been completed by Harelson Bleckly, 1307 Third National Bank Bldg., for the construction of five buildings for the Georgia Baptist Hospital. The estimated cost is $500,000.

Jacksonville, Fla.—Plans are being prepared by W. B. Talley, Arch., Cohen Bldg., for the construction of an armory at Jacksonville. The estimated cost is $150,000.

St. Petersburg, Fla.—Bids will be received, until Nov. 14, by the Pinellas County Commissioners, for the construction of an addition to the courthouse. The estimated cost is $50,000. W. R. Biggers, Tampa, Fla., is Arch.

★**New Orleans, La.**—(Official)—Bids will be received by the Board of Commissioners of the Port of New Orleans, until 8 p.m., Dec. 14, for the construction of a group of buildings. Ernest M. Loeb is Pres. of Bd. For details see advertisement under "Contracts To Be Let."

New Orleans, La.—Emile Weil, Arch., is preparing plans for a building to be erected for Jerusalem Temple of New Orleans. The estimated cost is $160,000. Charles Weinberg, of the United Fruit Co., is Chn. of the Bldg. Comm.

✚**Nashville, Tenn.**—Contracts for the construction of the Masonic building at Nashville have been awarded as follows: Brick work, FULCHER BRICK CO.; cut stone, FOSTER, CREIGHTON & GOULD CO.; steel work, NASHVILLE BRIDGE CO.; concrete work, ADAMANT STONE & CONCRETE CO., all of Nashville, Tenn.

Louisville, Ky.—Plans have been completed by J. Earl Henry, Arch., Louisville, for the construction of a school for the Crescent Hill District. The estimated cost is $75,000.

The Suburban Masonic Lodge will erect a three-story building at Third St. and Central Ave. The estimated cost is $50,000.

Mount Sterling, Ky.—Weber, Werner & Adkins, Archs., Mercantile Library Bldg., Cincinnati, Ohio, are preparing plans for the construction of a five-story, 70x120-ft. hotel, for the McKee Hotel Co. The estimated cost is $100,000.

✚**Cleveland, Ohio**—The contract for the construction of an apartment house, on Fairchild and Fairmont Ave. for C. H. McKeown, has been awarded to C. C. WEAVER. Estimated cost $75,000.

Plans have been prepared by F. S. Fish, Arch., 8202 Wade Park Ave. for the construction of a four-story, 50x100-ft. apartment house, on East Blvd., for Charles Michel, Jr., 10,318 Superior Ave., N. E. Estimated cost, $45,000.

Plans are being revised by W. S. Lougee, 500 Marshall Bldg., for the construction of a one-story, 80-408 ft., freight depot for the Detroit & Cleveland Navigation Co. Estimated cost, $100,000. A. A. Schantz, Detroit, Mich., is Mgr.

Bids will be received soon by Glenn R. Snyder, Arch., Marshall Bldg., for the construction of a two-story, 85x112 ft., brick and concrete church and school, on Phillips Ave. for the Phillips Ave. Presbyterian Church. Estimated cost, $50,000.

Norwood, Ohio—The Baltimore & Ohio R.R. contemplates constructing a freight house at Norwood. F. L. Stuart is Ch. Engr.

Greensburg, Ind.—Bids will be received until 10 a.m., Nov. 20, by E. C. Jerman, Secy. of the Y. M. C. A., Greensburg, for the construction of a two-story and basement, 80x160-ft. building, to cost $40,000.

Grand Rapids, Mich.—Bobinson & Campaw, Archs., 4 9 Houseman Bldg., are revising plans for the construction of a one-story, 60x200-ft., building for the First M. E. Church. Estimated cost, $175,000.

Chicago, Ill.—Plans have been prepared by William A. Klewer & Son, Archs., 64 West Randolph St., for the construction of a five-story, 75x99-ft. fireproof department store at 4722 Broadway, for Albert E. Cook. Estimated cost, $130,000.

Chicago, Ill.—Bids are being received by Beilfield & Hirch, 76 West Monroe St., for the construction of the three-story and basement, 75x150-ft. apartment house, at 4815 Christiana Ave. The estimated cost is $45,000.

Evanston, Ill.—Shepley, Putnam & Coolidge, Archs., 13 South La Salle St., Chicago, have prepared plans for the construction of a three-story and basement political science building for the Northwestern University. Estimated cost, $230,000.

Quincy, Ill.—The B'Nai Israel congregation contemplates constructing a four-story building at Quincy, to cost about $50,000.

Milwaukee, Wis.—Plans are being prepared for the Badger State Investment Co., for a three-story and basement, 50x150-ft., reinforced concrete addition to the Merrill Bldg. on Second St. and Grand Ave. Estimated cost, $100,000.

✚The contract for the construction of the County House of Correction has been awarded to the CODDINGTON ENGINEERING CO. Estimated cost, $600,000. Noted July 23 and Aug. 27.

Fort Dodge, Iowa—J. O. Damon, Jr., Arch., is preparing plans for the construction of a two-story and basement city hall. Estimated cost, $100,000.

BRIDGE, CHATTANOOGA, TENN.

✚Bids were received, Oct. 22, by the Tennessee Bridge Committee, for the construction of the superstructure of the Market St. Bridge across the Tennessee River. For the masonry bids were submitted by (A), T. Stuart & Son Co.; (B), Thomas Sheahan; (C), Bates & Rogers; (D), Hannon Hickey & Co.; (E), Hackerdorn Construction Co.; (F), Mason & Hilton; (G), Cleary White Co.; (H), National Engineering & Foundation Co.; (I), George A. Fuller Co.; (J), VANG CONSTRUCTION CO., Cumberland, Md. (awarded contract); (K), T. L. Eyre; (L), Hardaway Construction Co.; (M), M. C. Monday; (N), Missouri Valley Bridge & Iron Co. For the steel work, fixed and bascule spans, bids were submitted by (A), Stroebel Steel Construction Co.; (B), Pennsylvania Steel Co.; (C), Penn Bridge Co.; (D), Milwaukee Bridge Co.; (E), TOLEDO BRIDGE & CRANE CO., Toledo, Ohio (awarded contract). The item bids were as follows:

FIXED SPAN

	A	B	C	D	E
1,298,000 lb. structural steel	$0.0528	$0.0475	$0.048	$0.0445	$0.0416
24,000 lb. steel castings	0.12	0.07	0.07	0.07	0.0635
7 M ft. b.m. timber	60.00	55.00	55.00	65.00	57.30
1240 sq.yd. paving	4.00	2.50	2.00	2.00	2.00
920 lin.ft. railing	4.00	2.20	1.75	2.50	1.80
Extended totals	$88,054	$76,649	$73,399	$73,021	$68,128

BASCULE SPAN

	A	B	C	D	E
1,868,000 lb. structural steel	$0.0539	$0.0435	$0.0465	$0.0449	$0.0424
115,000 lb. track	0.098	0.06	0.085	0.084	0.057
10,000 steel castings	0.15	0.07	0.07	0.07	0.0615
48,145 lb. steel machinery	0.1436	0.12	0.16	0.135	0.11
200 lb. bronze	0.80	0.80	0.60	0.75	0.75
1050 cu.yd. concrete counterweight	10.00	11.00	8.00	10.00	10.00
70 M ft. b.m. timber	60.00	55.00	55.00	65.00	57.30
1240 sq.yd. paving	4.00	2.50	2.00	2.25	2.20
700 lin.ft. railing	4.00	2.20	1.75	2.50	1.80
Electrical equipment (lump sum)	6000.00	5400.00	4500.00	4500.00	3800.00
Extended totals	$153,924	$124,211	$130,583	$129,945	$119,096

MASONRY

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
6600 cu.yd. foundation excavation earth	$7.00	$4.80	$7.00	$6.50	$2.00	$6.00	$10.00	$11.75	$5.25	$5.50	$5.00	$3.00	$1.00	$6.00
400 cu.yd. foundation excavation rock	7.00	6.00	7.50	7.50	5.00	8.00	15.00	5.00	6.50	5.50	5.50	5.00	3.00	16.00
Hard wood piles	0.75	0.50	0.65	0.60	0.75	0.75	0.45	0.44	0.45	0.60	0.70	0.75	0.50	0.50
6450 lin.ft. concrete piles	1.40	1.30	1.25	1.35	1.50	1.50	1.50	1.90	1.60	1.50	1.40	1.75	1.00	1.00
10,750 cu.yd. Class A concrete	13.25	8.60	13.00	13.25	12.00	10.50	11.15	12.00	13.50	10.00	11.40	14.00	14.00	12.60
10,100 cu.yd. Class B concrete	7.50	11.80	7.50	7.50	9.50	8.00	10.00	8.50	8.50	6.75	6.80	11.00	9.00	6.65
16,200 cu.yd., Class C concrete	6.25	7.00	7.00	6.00	8.75	4.60	8.00	7.50	6.25	3.75	5.60	9.00	7.50	6.60
450 cu.yd. balustrade concrete	25.00	28.20	20.00	25.00	25.00	18.00	35.00	30.00	16.00	20.00	12.30	25.00	13.50	20.00
3800 sq.yd. bush hammer surfacing	0.12	0.07	0.10	0.08	0.12	0.05	0.20	0.10	0.05	0.16	0.10	0.06	0.06	0.05
60,000 sq.yd. carborundum surfacing	0.05	0.04	0.03	0.04	0.15	0.04	0.03	0.10	0.05	0.05	0.06	0.04	0.02	0.02
1,350,000 lb. reinforcing steel	0.03½	0.03	0.025	0.028	0.03	0.02½	0.03	0.025	0.035	0.03	0.03	0.03	0.025	0.03
3,720 lin.ft. curb bar	0.30	0.15	0.20	0.30	0.25	0.20	0.20	0.30	0.40	0.15	0.15	0.20	0.30	0.18
7,340 lin.ft. terra cotta conduit	0.10	0.10	0.08	0.15	0.15	0.10	0.06	0.50	0.09	0.05	0.50	0.20	0.50	0.12
750 lin.ft. metal conduit	0.15	0.06	0.10	0.15	0.25	0.10	0.05	1.00	0.35	0.04	0.25	0.20	0.50	0.12
25,750 lin.ft. curb and sidewalk finish	0.05	0.05	0.06	0.05	0.05	0.06	0.10	0.12	0.05	0.04	0.05	0.08	0.02	0.06
168 lin.ft. 6-in. terra cotta pipe	0.35	0.80	0.15	0.25	0.20	0.25	0.10	0.25	0.35	0.10	0.15	0.12	0.30	0.15
320 lin.ft. 10 in. terra cotta pipe	0.50	1.00	0.25	0.45	0.35	0.40	0.30	0.30	0.55	0.20	0.30	0.25	0.50	0.30
320 lin.ft. 12-in. terra cotta pipe	0.75	1.25	0.30	0.60	0.45	0.50	0.35	0.40	0.70	0.25	0.40	0.35	0.75	0.50
8 catch basins	25.00	60.00	10.00	25.00	15.00	30.00	50.00	50.00	15.00	25.00	30.00	25.00	15.00	48.00
700 catch plates	0.60	1.00	0.40	0.50	1.50	1.00	0.35	0.80	2.75	0.30	1.25	0.10	0.00	0.50
10,900 lb. iron castings	0.05	0.04	0.06	0.05	0.04	0.04	0.02	0.06	0.10	0.05	0.05	0.03	0.04	0.04
Demolishing of buildings (lump sum)	50.00	200.00	300.00	2.00	500.00	100.00	50.00	200.00	125.00	1.00	50.00	50.00	50.00	150.00
Extended totals	$444,108	$439,231	$431,618	$431,153	$463,735	$374,069	$497,675	$427,736	$459,795	$342,491	$387,961	$503,088	$426,381	$422,826

Hampton, Iowa—Plans have been prepared by Wetherell & Gage, Arch., Youngerman Bldg., Des Moines, for the construction of a three-story, 88x122-ft. hospital, for Leefers Co. Estimated cost, $60,000.

+St. Paul, Minn.—The contract for the construction of a four-story and basement, 46x108-ft., building for the St. Johns Hospital Association, has been awarded to LAUER BROS., Chestnut St. Estimated cost, $60,000.

Wichita, Kan.—The Board of Education contemplates constructing a $100,000 grade school for the Webster and Emerson School Districts.

Sioux Falls, S. D.—E. L. Masqueray, Arch., Endicott Bldg., St. Paul, Minn., is preparing plans for the construction of a cathedral at Sioux Falls. The estimated cost is $200,000.

Helena, Mont.—Link & Haire, Archs. have prepared plans for the construction of the Masonic Temple. The estimated cost is $75,000.

St. Joseph, Mo.—Bids for constructing the foundation of the Methodist Episcopal Hospital will be received by Eckel & Aldrich, Archs., 1104 Corby Forsee Bldg. Estimated cost, $100,000.

St. Louis, Mo.—C. J. and F. E. Briner, Elec. Engrs., 207 Franklin Ave., contemplate constructing a three-story, fireproof building on Morgan St., between Tenth and Eleventh St. The estimated cost is $50,000.

+Carlsbad, Tex.—The contract for the construction of the dormitory for the Texas Tuberculosis Sanitarium has been awarded to J. C. JOPLIN & BROS., Beatty Bldg.

+Albany, Ore.—The contract for the construction of the brick and concrete Central School has been awarded to N. E. HOOVER. Estimated cost, $39,150.

Portland, Ore.—T. T. Jones, Arch., 334 East Third St., has prepared plans for the construction of a two-story school for the Richmond School District. Estimated cost, $55,000.

San Francisco, Calif.—Bakewell & Brown, Archs., 251 Kearny St., have prepared plans for the construction of a five-story hospital on Webster St. for the Cooper Medical College. The estimated cost is $150,000.

+San Francisco, Calif.—Contracts for the interior work of the city hall have been awarded as follows: UNITED STATES METAL PRODUCTS CO., sheet metal work, $66,780; P. E. DENIVELLE, ornamental composition plaster, $9325; PARAFFINE PAINT CO., painting, $6582. Noted Oct. 1.

San Mateo, Calif.—W. D. Shea, Arch., San Francisco, is preparing plans for the construction of a building for the Knights of Columbus Hall Association. Estimated cost, $50,000.

+Hamilton, Ont.—The contract for constructing the foundation of the Royal Connaught Hotel, has been awarded to the RAYMOND CONCRETE PILE CO., LTD., New Birks Bldg., Montreal, Que. Stone & Webster Construction Co. is the general contractor.

+Hamilton, Ont.—Contracts for the construction of the Dundurn St. School have been awarded as follows: Masonry, MITCHELL & RIDDELL, $45,900; heating and plumbing, ADAM CLARK, $19,167; carpentry, JAMES CALVERT, $17,000. Estimated cost, $95,550.

Toronto, Ont.—Bids will soon be received by G. W. Gouinlock, Arch., Temple Bldg., for constructing the Machinery Hall, at the Exhibition Grounds. The structure will be reinforced concrete and brick and will cost about $145,000.

Moncton, N. B.—Plans are being prepared for the construction of a hotel near the Union Depot, Moncton.

The Stephens-Adamson Manufacturing Co., Aurora, Ill., is changing the electrical equipment throughout its shops, using individual motors and group drives. Tests have been made on all machines, and the results assure a considerable saving in power cost. Plans are also being prepared for another structural steel shop; construction of the same to be begun immediately after the first of the year. This will be the eighth building of the company's plant. This company reports a very satisfactory increase in its business during the present year and a most encouraging outlook.

SEWER, CINCINNATI, OHIO

+Bids were received by the Director of Public Service, for constructing a sewer in Duck Creek Rd. from, (A) Engineer's estimate; (B) D. P. FOLEY, Cincinnati (awarded Contract No. 1); (C) John Dempsey, Cincinnati; (D) Connelly Construction Co., Cincinnati; (E) Thurber & Co., Cincinnati; (F) R. E. Cash, Cincinnati; (G) Welling & Franz, Cincinnati; (H) James Duff Construction Co.; (I) Thomas Maloney, Cincinnati; (J) John B. McLane & Co., Newport, Ky.; (K) Thomas P. Strack, Cincinnati; (L) M. J. McCarthy, Cincinnati; (M) Henkel & Sullivan, Cincinnati; (N) CANNELL-AMES CONSTRUCTION CO., Columbus (awarded Contract No. 2); (O) Evan Evans, Cincinnati. The item bids were as follows:

CONTRACT NO. 1

Brick Sewer

	A	B	C	D	E	F	G	H	J	J	K	L	M	O
636 lin.ft. 36-in. brick sewer, complete	$7.50	$4.55	$4.60	$5.50	$6.90	$4.50	$5.60	$7.00	$3.50	$6.70	$7.50	$3.50	$6.00	$6.50
598 lin.ft. 42-in. brick sewer, complete	8.00	4.75	5.80	6.00	7.75	5.00	5.90	7.25	4.00	7.50	8.00	4.50	7.00	7.25
880 lin.ft. 78-in. brick sewer, complete	16.00	14.10	14.80	14.00	18.50	13.50	13.75	16.25	14.80	13.40	16.00	15.00	15.00	15.50
356 lin.ft. 6½x9-ft. concrete sewer, complete	30.00	18.00	19.50	23.00	21.00	25.00	24.50	22.00	28.00	28.60	25.00	28.00	30.00	35.00
3 manholes (standard) on brick sewers 4 ft. diameter or less	80.00	100.00	50.00	80.00	50.00	70.00	75.00	65.00	80.00	100.00	80.00	60.00	70.00	75.00
4 manholes (standard) on brick sewers of over 4 ft. diameter	120.00	100.00	80.00	80.00	50.00	100.00	75.00	90.00	120.00	100.00	120.00	70.00	100.00	100.00
1 drop manhole	100.00	85.00	80.00	80.00	50.00	90.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Extended totals	$35,134	$25,335	$26,910	$28,234	$33,179	$27,332	$28,537	$31,574	$28,430	$31,520	$33,354	$28,645	$32,592	$35,294

CONTRACT NO. 2

Reinforced Concrete Sewer

	A	G	H	J	K	L	N
2225 lin.ft. 39-in. reinforced concrete	$9.00	$9.00	$8.50	$8.34	$8.00	$9.00	$5.00
3218 lin.ft. 42-in. reinforced concrete	14.00	15.00	11.00	12.10	13.00	15.00	10.50
1147 lin.ft. 45-in. reinforced concrete	5.00	6.00	7.72	6.44	8.00	11.00	9.10
24 manholes (standard) on concrete sewer, 4 ft. in diameter or less	100.00	90.00	80.00	60.00	100.00	100.00	80.00
1 drop manhole on trunk sewer	120.00	100.00	100.00	100.00	120.00	100.00	125.00
140 cu.yd. concrete masonry, Class 2, foundations	10.00	12.00	8.00	8.00	10.00	10.00	6.00
Extended totals	$74,732	$79,117	$66,305	$67,541	$72,730	$84,812	$58,237

The General Railway Signal Co., Rochester, N. Y., in a notice issued by W. W. Salmon, Pres. and Gen. Mgr., announces the following changes in organization: M. Wuerpel has been appointed Assistant to the President. S. G. Johnson, Vice-Pres., will be in full charge of the Sales Department, which includes all branch and foreign offices, commercial engineering, commercial inspection and contract installation, reporting to the President and General Manager, and with headquarters at Rochester. A Department of Publicity and Education has been created and H. M. Sperry will assume duties as manager of this department, reporting to the President and General Manager, and coöperating closely with all departments. This department will take over the advertising and catalog work and will undertake an educational campaign in regard to the signaling of steam and electric railways.

The Lidgerwood Manufacturing Co., 96 Liberty St., New York, N. Y., has built during the years it has been in business over 37,000 steam and electric hoists. This is probably the greatest record of hoisting engine production made by any one concern.

Vitrified Pipe Sewer

	A	B	G	H	J	K	L	N
60 lin.ft. 8-in. vitrified pipe sewer	$2.00	$1.00	$1.50	$1.50	$0.80	$1.00	$2.00	$1.50
230 lin.ft. 18-in. vitrified pipe sewer	2.00	2.00	1.50	1.65	2.00	1.90	2.00	1.50
1030 lin.ft. 32-in. vitrified pipe sewer	5.00	4.50	4.30	2.85	3.50	2.00	3.00	1.50
452 lin.ft. 32-in. vitrified pipe sewer "B" line	3.00	4.50	2.70	2.65	2.00	2.50	2.00	1.00
20 lin.ft. 24-in. vitrified pipe sewer	3.00	5.00	2.00	3.25	2.00	3.00	3.00	2.00
6 manholes (standard) on pipe sewer	70.00	80.00	70.00	60.00	70.00	70.00	70.00	60.00
3 manholes (standard) on pipe sewer "B" line	60.00	80.00	60.00	50.00	70.00	60.00	60.00	60.00
6 6-in. stubs in trunk sewer	0.30	0.50	0.30	0.35	0.30	0.30	0.30	0.40
3 12-in. slants in trunk sewer	1.00	1.00	1.00	1.50	1.00	1.00	1.00	0.50
1 22-in. slant in trunk sewer	5.00	2.50	2.50	3.00	5.00	5.00	4.00	3.00
1 24-in. slant in trunk sewer	5.00	2.50	2.75	3.25	5.00	5.00	4.00	3.50
200 cu.yd. concrete masonry, Class 2	7.50	6.50	10.00	8.00	7.00	7.50	1.00	6.00
5 cu.yd. concrete masonry, Class 3	7.00	7.50	8.00	10.00	10.00	7.00	6.00	12.00
10 cu.yd. brick masonry	13.00	10.00	12.00	15.00	12.00	13.00	12.00	15.00
2800 lin.ft. 8 in. underdrain, complete	0.60	0.02	0.50	0.15	0.50	0.40	0.10	0.10
100 cu.yd. gravel refill	2.00	2.00	2.00	3.50	2.00	2.00	1.00	2.50
10 sq.yd. rip-rap	2.00	5.00	1.50	4.00	2.00	2.00	0.02	2.00
100 cu.yd. special excavation	0.60	1.00	0.50	1.50	1.00	0.60	0.02	0.40
35 M. ft. b.m. sheating left in place	20.00	30.00	20.00	25.00	20.00	20.00	20.00	20.00
2000 lin.ft. 10 in. underdrain, complete	0.70	0.02	0.60	0.20	0.60	0.50	0.20	0.10
1000 lin.ft. 12 in. underdrain, complete	0.80	0.02	0.70	0.25	0.70	0.60	0.25	0.10
Extended totals	$14,286	$10,973	$13,159	$9,476	$11,592	$10,757	$7,329	$6,022

Contracts to Be Let

Bids received until Dec. 1, 1914.

New County Building

FOR NEW CASTLE COUNTY AND NEW MUNICIPAL BUILDING FOR THE CITY OF WILMINGTON

Sealed proposals will be received by the New Castle County Building Commission and the Wilmington Building Commission, at the office of the Commission in the Church Building, at the corner of Market and Tenth Sts., in the City of Wilmington, Delaware, up to 11 o'clock A.M. (Eastern time) on the first day of December, 1914, for the Interior Marble, for the Interior Cut Stone, for the Bronze Work, for the Miscellaneous and Ornamental Iron, for the Painting and Finishing, for the Hollow Metal Doors, for the Finished Hardware, for the Brick Paving, for the Sidewalks, and for the Revolving Doors, entering into the construction and completion of the new County Building for New Castle County and of the new Municipal Building for the City of Wilmington, situated between King Street and French Street and between Tenth Street and Eleventh Street, in the City of Wilmington, Delaware; and will be opened publicly and declared by the Commissions in their office. A separate proposal is required for each of the buildings, for each department or class of work above listed.

Each proposal for Interior Marble shall be accompanied by a certified check or cash deposit in the amount of Four Hundred Dollars ($400).

Each proposal for Interior Cut Stone shall be accompanied by a certified check or cash deposit in the amount of Three Hundred Dollars ($300).

Each proposal for Bronze Work shall be accompanied by a certified check or cash deposit in the amount of Six Hundred Dollars ($600).

Each proposal for Misc. and Ornamental Iron shall be accompanied by a certified check or cash deposit in the amount of Five Hundred Dollars ($500).

Each proposal for Painting and Finishing shall be accompanied by a certified check or cash deposit in the amount of Three Hundred Dollars ($300).

Each proposal for Hollow Metal Doors shall be accompanied by a certified check or cash deposit in the amount of Eight Hundred Dollars ($800).

Each proposal for Finished Hardware shall be accompanied by a certified check or cash deposit in the amount of Two Hundred Dollars ($200).

Each proposal for Brick Paving shall be accompanied by a certified check or cash deposit in the amount of Two Hundred Dollars ($200).

Each proposal for Sidewalks shall be accompanied by a certified check or cash deposit in the amount of Two Hundred Dollars ($200).

Each proposal for Revolving Doors shall be accompanied by a certified check or cash deposit in the amount of One Hundred Dollars ($100).

The Commission to reserve the right to reject any or all proposals received, if they consider it to the best interests of the County or City so to do.

The surety required to guarantee the faithful performance of each contract will be one or more bonds executed by one or more Guarantee or Surety Companies, aggregating in amount fifty per cent. (50%) of the amount of the contract.

On and after November 17, the drawings and specifications, the form of contract, the bond and blank forms for proposals, may be obtained at the office of the Commission in the Church Building, Wilmington, Delaware.

One set of drawings and specifications, etc., will be furnished to Contractors intending to submit proposals on application to the Commissions and upon the payment of a deposit of Fifty Dollars ($50) this deposit to be forfeited if the drawings and specifications are not returned to the Commissions in good order before December 15, 1914. Additional copies will be furnished upon the payment by the Contractor of the net cost of the same.

THOMAS F. GORMLEY,
Secretary of The New Castle County Building Commission and of the Wilmington Building Commission.

Bids received until Nov. 17, 1914.

Union School Building

Lockport, N. Y.

SEALED PROPOSALS will be received by the Board of Education, City of Lockport, New York, at its office in the Union School Building, up to eight o'clock p.m., November 17th, for the material and labor as shown on plans and included in specifications prepared by Wm. Neil Smith, Architect, 101 Park Avenue, New York City; and the heating and ventilation plans and specifications prepared by Douglas Sprague, Engineering Architect, 39 Cortlandt Street, New York City, for the enlargement and improvement of the Union School Building, which plans and specifications have been approved by the State Education Department.

Said plans and specifications may be seen at the office of said Board of Education, or at the offices of said architects. Copies thereof may be obtained by prospective proposers upon request to said Board and payment of five dollars per set of plans and specifications—said amount to be returned to the proposer upon return of plans and specifications to the Board, in good condition.

Separate proposals may be made by contractors for the labor and material included in the separate Masonry, Carpentry, Plumbing, Electrical, and Heating and Ventilation specifications; and proposals for the entire work, separately itemized, may be submitted. All proposals must be accompanied by a certified check or a proposal bond for two per cent. of the amount of the proposal, as guarantee that proposer will enter into contract for the full performance of the work upon which proposal is submitted, if the proposal is accepted.

The Board of Education hereby reserves the right to accept or reject any or all of the proposals that may be received. By order of the Board of Education, Lockport, N. Y., October 19th, 1914.

EMMET BELKNAP,
Clerk of the Board.

Bids received until Dec. 7, 1914.

Sewage Collecting System

Dunellen, New Jersey.

Sealed proposals for constructing a sewage collecting system will be received by the Council of the Borough of Dunellen until 8 P.M., December 7th, 1914. Proposals should be delivered to William P. Deering, Clerk of the Borough, at the Borough Hall, North Avenue, Dunellen, New Jersey.

The work comprises a system of vitrified pipe sewers with bituminous joints. There are about 14 miles of street sewer, ranging from 8 to 15 inches in diameter, two small sewage pumping stations and about 1500 feet of 6-inch cast-iron force main.

Proposals must be accompanied by a certified check on a national bank or trust company for Two Thousand ($2000) Dollars. The bidder, to whom the contract is awarded, will be required to execute a contract and furnish a surety bond in the sum of 50% of the amount of the contract within ten days (Sundays excepted) after receiving official notice of the award. The bond shall be satisfactory to the Borough both as to form and surety.

The Borough reserves the right to reject any or all bids.

The plans and specifications may be obtained from George W. Fuller, Engineer, 170 Broadway, New York City, upon depositing Twenty-five Dollars ($25), which will be refunded if said plans and specifications are returned in good condition within thirty days after bids have been received and acted upon by the said Borough.

Bids should be made on the blank Form of Proposal bound with the specifications.

Dated November 2, 1914.

By order of the MAYOR AND BOROUGH COUNCIL OF THE BOROUGH OF DUNELLEN.
WILLIAM P. DEERING,
Borough Clerk.